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**Southern
Planting
F a c t s
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**Glen Saint Mary
Nurseries Co.**

**GLEN SAINT MARY
F L O R I D A**

Terms of Business

Location.—General Office and Nurseries at Glen Saint Mary, Baker County, Florida, on the Seaboard Air Line Railway, thirty miles west of Jacksonville. Office and Citrus Nurseries at Winter Haven, Polk County, Florida.

Long-Distance Telephone and Western Union Telegraph office in our main office.

Invitations to Visitors.—We take pleasure in showing our stock to persons wishing to purchase; if notified in time, we will meet visitors at the station on arrival.

No Agents.—We employ no agents, and have no connection with any other nursery. Trees sold to dealers must be resold by them upon their own responsibility. We are responsible only to parties purchasing direct from our nurseries.

Minimum Orders.—We do not care to ship orders amounting to less than \$2.

Applying Prices.—Five, fifty and five hundred trees of one class, at ten, hundred and thousand rates, respectively, purchaser's selection from varieties of one fruit having a common price. For instance, fifty or more peaches, in one or more varieties, would come at the hundred rate, and five hundred or more at the thousand rate. The foregoing does not apply to badly assorted orders, or to long lists made up of a few each of many varieties.

Terms Cash with order, if for immediate shipment. Orders for trees to be held for some weeks after the shipping season opens should also be accompanied by full payment. On orders booked in advance of the shipping season 25 per cent down, with the balance due when the shipping season opens. We do not care to ship C. O. D.

Remittances.—To secure safety and prompt acceptance, remittances should be made by Bank Draft, Express or Post-Office Money Order, Registered Letter, or Prepaid Express.

Method of Shipment.—Shipping directions should be plainly written, and we urge our customers, in all cases, to use our order sheets. We shall be pleased to forward additional ones upon application. Kindly indicate whether shipment is to be made by freight, express or mail. When method of shipment is left to us, or when no directions are given, we will ship according to our best judgment, by such means as we believe to be in the best interests of our customers.

Transportation at Purchaser's Risk and Expense.—All transportation charges are to be paid by the purchaser, and our responsibility ceases upon delivery to forwarding companies; claims for losses or damages must be made upon the latter. We will, however, start a tracer for delayed shipments, if notified, and use every means at our command to secure prompt delivery, or recovery in case of damage or loss.

Shipping by Parcel Post.—In ordering trees or plants for shipment by post, add 25 per cent to the list price, to cover cost of packing and postage.

Time of Shipment.—Unless instructed otherwise, orders received during the shipping season will be forwarded as soon after their receipt as possible, and orders booked in advance will be shipped as soon as may be after the shipping season opens.

Shipping and Planting Season.—November to March for all trees and shrubs grown in the open field; balled plants, bamboos, grasses and pot-grown plants may be shipped at any time. Shipments March to November should go by express or post. Prices in this catalogue cover the shipping season of 1920-21, ending May 1, 1921.

Selecting Varieties suited to locality is of the first importance, and can often be more advantageously done by ourselves than by purchasers. We are always glad to aid our customers in their selections, when so desired, and will, upon request, cheerfully furnish additional information in regard to the adaptability or desirability of particular varieties.

Substitution.—It is our desire to furnish stock exactly as ordered. On orders for commercial planting, substitution of varieties will not be made without permission from customer. On small orders, items which we are unable to supply will be omitted unless we are instructed to substitute.

Printed Labels attached with brass wire to everything sent out.

We Guarantee all stock sent out to be well rooted, well grown, true to name, properly packed, and shipped according to instructions. Our liability under the foregoing guaranty is limited in amount to the original price received.

Claims.—If, by any possibility, errors should occur, they will be promptly rectified, if claim is made within ten days after the receipt of the goods.



View in one of our Orange and Grapefruit groves

1921

GLEN SAINT MARY NURSERIES COMPANY

H. HAROLD HUME . . . President
H. E. CORNELL . . . Vice-President
A. B. JOHNSON . . . Treasurer
E. L. STEELE . . . Assistant Treasurer

C. R. STEPHENS . . . Secretary
A. TYLER . . . Assistant Secretary
R. L. WOLFE . . . Assistant Secretary
W. B. MATHIS . . . Field Manager

GLEN SAINT MARY, FLORIDA

GENERAL NURSERIES

WINTER HAVEN, FLORIDA

CITRUS NURSERIES

ESTABLISHED 1882

INCORPORATED 1907

ANNOUNCEMENT



URING the thirty-nine years that have elapsed since I founded the Glen Saint Mary Nurseries in 1882, I have been fortunate in having able assistants, and particularly so since the company was incorporated in 1907. In now retiring from active business, it affords me much pleasure to see the leadership of the Glen Saint Mary Nurseries Company assumed by the man who has been its able Vice-President during its entire corporate life. Mr. H. Harold Hume, our new President, needs no introduction to fruit-growers and horticulturists, either of this or other countries.

Under the new régime, H. E. Cornell, for years past the able manager of our southern branch, becomes Vice-President; A. B. Johnson, formerly Assistant Treasurer becomes Treasurer; C. R. Stephens, former Assistant Secretary, becomes Secretary; E. L. Steele becomes Assistant Treasurer; and A. Tyler becomes Assistant Secretary. Mr. W. B. Mathis remains Field Manager and Mr. R. L. Wolfe, Assistant Secretary. The names of all these officers are well known to our friends and customers of many years past, and all of them are thoroughly imbued with the sense of responsibility that officer-ship entails.

I feel therefore that the company will be equally able, as in any time in its past, to serve the tree- and plant-buying public, and I bespeak for the company under its new leadership the same generous patronage as heretofore accorded.

G. L. TABER.

FOREWORD

In the reconstruction period following the war, the planting of commercial fruit trees and the improvement of home surroundings in Florida and the entire South have had a tremendous increase. In spite of an enlarged output during the past season, we were unable to meet the demand, and many planters were disappointed in not being able to obtain trees. Good nursery stock cannot be produced hastily, but we have steadily increased our output. For delivery this season we have the largest and finest stock of trees and shrubs we have ever had.

Nevertheless, present indications are that our supply will be far short of the demand for Glen Saint Mary quality products, and we urge our customers to place their orders early and to plant early in order to obtain what they desire.

We assure our customers, both old and new, that they will receive from us the same high-quality stock and prompt, efficient service which has enabled us to grow for thirty-nine years. The new officers of the company have been associated with the business in one capacity or another during long periods of service, and there will be no change either in the policies or practices of the nurseries.

GLEN SAINT MARY NURSERIES COMPANY
GLEN SAINT MARY, FLORIDA

H. HAROLD HUME, President
October 1, 1920



Citrus trees in our Nursery, Winter Haven, Florida

Citrus Fruits



THE GLEN SAINT MARY NURSERIES COMPANY has for a great many years grown by far more citrus trees than any other nursery in the world. While we do not grow citrus trees exclusively, producing other nursery trees as well, still the growing of citrus trees has always been the paramount and largest interest of our nursery business. Words like "largest" or "biggest" do not necessarily mean much to a prospective buyer until he stops to consider that the reason for this largeness is nothing more or less than the result of a continued and ever-increasing demand for stock that has absolutely made good with our customers in every sense.

It is the purpose of this section of our catalogue to present to our customers a precise description of the citrus nursery stock we grow. It is not our purpose to give a history of the citrus industry or to write a complete treatise on the culture of these fruits. The subject is too broad and extensive to permit of our doing this. The prospective planter has a general knowledge of the business, gained by association with it in some of its phases, and our thirty-eight years of experience in it are entirely at his command by personal visit or by mail.

We ourselves are deeply interested in growing Citrus Fruit. We know it to be a profitable business and we are constantly adding to our own plantings. During the past several years the prices of Citrus Fruit have steadily increased and the demand has at the same time more than kept pace with the supply. There is absolutely no danger of overproduction and at this time the growing of Citrus Fruit commercially is, we believe, a safe and profitable industry.

Sour Orange, Rough Lemon, and *Citrus trifoliata* seedlings used in our nurseries are grown in our own seed-beds, thrifty, vigorous, well grown, carefully selected and graded at time of setting in the nursery rows. They have not been forced beyond their normal growth.

After transplanting in the nursery rows, the stocks are carefully fertilized and cultivated according to the methods worked out in the thirty-eight years of our nursery experience. Needless to say that, in this period of time, we have learned how to grow the very finest nursery trees that can be produced. That our customers agree with us is evidenced by the annually increasing volume of our business. These years of experience are of untold value to our customers.

We know the comparative value of different sorts because we are growing them in our test orchards. In these orchards the largest-known collections of Citrus Fruits are to be found. For instance, at the meeting of the American Pomological Society in Washington, in November, 1913, we exhibited eighty-three varieties of Citrus Fruits of our own growing. We venture to say that no such collection of Citrus Fruits grown by one firm was ever before brought together. Not all of these varieties are, of course, offered in our lists; but the best, as determined by actual test throughout the citrus districts, are propagated.

The varieties we are propagating are selected strains, with a straight-line history going back to an individual tree of known merit. In our propagation work, care is taken to select well-developed

buds from trees of authentic parentage, thus making sure that the young trees are true to name—quality trees in every particular. At the time the trees are sold, the roots of one-year trees are four to five years old. The age of the root has an important bearing on the established character of the trees, as well as on the time the trees will come into bearing.

STOCKS FOR CITRUS TREES

To one not familiar with the industry, about to plant Citrus trees, the question of which stock to use must seem very perplexing. So many apparently conflicting claims for and against this or that root system are made. However, it should be remembered that the knowledge of an individual grower, unless he be a very extensive one, possibly may not extend beyond his own grove or his own immediate locality. Our experience and observations of many years embrace the entire citrus area.

Citrus trees can be grown on roots of any member of the whole citrus family. We have tried a great many of them. Most of them, for one cause or another, are not adapted for citrus fruit culture under general conditions. We have found that practically all requirements for success under different climatic and soil conditions can be met with Sour Orange, Rough Lemon, or *Citrus trifoliata* stocks.

Instead of being difficult to arrive at, we believe the choice of stocks almost imperatively settles itself. Each of the three stocks on which we grow Citrus trees possesses distinctive marked characteristics as well as adaptability to the location in which it should be used. Successful, heavy-bearing, beautiful groves are produced from trees on all of these stocks. But no one of them will meet all conditions. It is largely a matter of soil, location and climatic conditions.

Some varieties of citrus grow equally well on all stocks, under proper conditions. Others are failures. Our extensive experience has taught us which varieties do not fully succeed on certain roots and our customers may rest fully assured that the varieties we offer are well adapted to the different stocks on which they are grown.

ROUGH LEMON. This stock has a decided influence on the variety top-worked upon it, especially as affecting its growth and degree of hardiness. Rough Lemon is the thriftiest growing of all stock and induces a vigorous growth of top. On account of its wide-spreading root system and very thrifty growing characteristics, it is the best stock for light sandy soils. Trees worked on it do well on soils so lacking in fertility that other stocks would be complete failures. On account of its rapid, vigorous growth, trees on Rough Lemon stock are more tender than when propagated on other stocks and should be planted where there is little or no danger from cold. As a rule, light sandy soils such as are found on the lower East Coast and in the high rolling regions of Polk, Orange and Lake Counties are fairly immune from frosts, and to this type of soil the Rough Lemon stock is best suited.

SOUR ORANGE. No stock on which citrus fruits are produced is more widely used than Sour Orange; no stock is better adapted for the production of healthy, vigorous trees and fine quality fruit under a wide range of soil and climatic conditions. It is safe to say that the bulk of the world's citrus fruit crops are grown on this stock. The first budded groves in Florida were grown on Sour Orange roots and this stock is being used almost entirely in all of the other citrus-producing sections of the world. It is a deep-rooted stock, healthy, free from disease and hardy. It is adapted to the heavier soils such as good flat woods land, hammock and muck, and on these lands produces fine, vigorous trees. For the production of high-quality, late-keeping fruit it is unsurpassed.

CITRUS TRIFOLIATA. This is the hardest species of citrus known in this country. It has become of great importance as a stock for Citrus trees of all kinds. Varieties budded on it are made hardier because of its dormant and hardy character, and the fruit is of exceedingly fine quality, ripening two or three weeks earlier than if budded on other stocks. It has been claimed that it dwarfs the trees budded upon it, but the tests of years in our test groves have not proved this to be so, except in the case of a few varieties. For the Satsuma Orange, it is the only stock to use, because of its influence on the quality of the fruit and the fruitfulness and hardiness of the tree. It is adapted to planting on alluvial lands, clay lands, soils underlaid with clay, and those which naturally contain plenty of moisture or to which water can be applied by irrigation. It should not be planted on high, dry, sandy lands lacking moisture. On such soils it is a failure. It is the stock which should be used for Citrus trees in most parts of northern and western Florida, Alabama, Mississippi, Louisiana, and in Texas as far south as Beeville. In some parts of this territory Sour Orange stock is recommended.

VARIETIES PROPAGATED ON DIFFERENT STOCKS

Some varieties are more successfully grown on certain stocks than on others. Having this in mind, as well as certain other features, we do not attempt to grow or to offer to our customers citrus nursery trees of every kind budded upon each of the three stocks. It sometimes happens of

Citrus Fruits

course that a variety on one of the stocks is sold out, in which case it cannot be supplied until the next season. For this season's trade we have propagated the different varieties as follows:

VARIETIES ON ROUGH LEMON STOCK—

Oranges: King, Lue Gim Gong, Parson Brown, Pineapple, Ruby, Tangerine, Valencia.

Grapefruit: Duncan, Marsh Seedless, McCarty, Silver Cluster, Triumph, Walters.

Lemons: Ponderosa, Villa Franca.

Limes: Tahiti.

Kumquats: Marumi, Neiwa, Nagami.

VARIETIES ON SOUR ORANGE STOCK—

Oranges: King, Lue Gim Gong, Parson Brown, Pineapple, Ruby, Tangerine, Valencia, Washington Navel.

Grapefruit: Duncan, Marsh Seedless, McCarty, Silver Cluster, Triumph, Walters.

Lemons: Ponderosa, Villa Franca.

VARIETIES ON CITRUS TRIFOLIATA STOCK—

Oranges: Homosassa, Parson Brown, Pineapple, Satsuma.

Grapefruit: Duncan.

Kumquats: Nagami.

PRICES ON ALL VARIETIES OF CITRUS, EXCEPT KUMQUATS.—On Sour Orange and Rough Lemon Stocks.

	Each	Per 10	100	1,000
2 to 3 feet.....	\$0 90	\$8 00	\$75 00	\$700 00
3 to 4 feet, caliper $\frac{1}{2}$ inch to $\frac{3}{4}$ inch.....	1 10	10 00	95 00	900 00
4 to 5 feet, caliper $\frac{3}{8}$ inch to $\frac{1}{2}$ inch.....	1 60	14 00	125 00	1,150 00
5 to 7 feet, caliper $\frac{3}{4}$ inch to 1 inch.....	2 25	20 00	175 00	1,500 00
2-year, caliper 1 inch to 1 $\frac{1}{4}$ inches.....	3 00	25 00	225 00	
On Citrus trifoliata Stocks.	Each	Per 10	100	1,000
2 to 3 feet.....	\$0 60	\$5 50	\$50 00	\$450 00
3 to 4 feet, caliper $\frac{1}{2}$ inch to $\frac{3}{4}$ inch.....	80	7 00	65 00	600 00
4 to 5 feet, caliper $\frac{3}{8}$ inch to $\frac{1}{2}$ inch.....	1 00	9 00	85 00	800 00
5 to 7 feet, caliper $\frac{3}{4}$ inch to 1 inch.....	1 25	11 50	110 00	1,000 00
2-year, caliper 1 inch to 1 $\frac{1}{4}$ inches.....	1 75	16 00	140 00	1,250 00

Satsuma, Tangerine, King and Limes caliper somewhat less than the measurements given above on account of their more slender growth. All Citrus trees are pruned for planting before shipment.



Pineapple Orange

ORANGES

Since the very earliest days, the Orange has attracted the attention of fruit growers and fruit consumers. Today it is one of America's most important fruit crops and based upon it an enormous industry has been built up, and in addition to its importance in commerce, it has lost none of the charm that has come down to us from ages past.

From time to time during the period which has brought the Orange to its present important place in industrial development, it has been prophesied that too many trees were being planted, that the fruit supply would so outrun the demand that producers would not receive satisfactory returns from their crops. In moments of pessimism, many have been guilty of such predictions. Yet, they have not come true, and looking at the matter broadly it is a safe venture to say that such a condition will never come about.

So far as our markets are concerned, the United States and Canada are one, with a population of one hundred and twenty-five millions. Last season, Florida's citrus production was approximately eight million boxes. This includes both Oranges and grapefruit, other kinds being produced only in negligible quantities. Allowing one hundred and fifty-six fruits per box, which, counting grapefruit, is certainly a liberal basis, we produced only enough to supply each one of our possible consumers with ten fruits. This of course for Florida's production only. Certainly there is no reason to be alarmed over our production if the distribution of the crop is handled properly. More than that, there is no immediate chance of increased plantings increasing the number of fruits per person, because of the natural increase in population. In this relationship of population and production lies the most satisfactory answer to any possibility of over supply. But the crop must be properly distributed, so that

every city, town, village and rural community will receive its proper allotment of fruit. If citrus marketing agencies can approach their work with a broad enough viewpoint, there certainly is no danger of over-production.

Having this in mind, the Orange grower of today, considering the limited areas in which the crop can be successfully grown, can certainly look forward with confidence to the future of the industry in which he is engaged.

There was a period in the development of Orange growing in Florida when a very large number of varieties were propagated by nurserymen and set out by planters. Year by year, however, as the industry became stabilized their number has decreased until at the present time the list is confined to a sufficient number of varieties to adequately cover the fruiting season with a few special varieties to meet special conditions and special tastes. The list of standard varieties of Oranges which we are propagating for our customers cannot be improved upon and when a planter has decided upon the season at which he desires to market his crop, the question of varieties to plant is easily settled.

With the establishment of our nurseries in 1882 the propagation of the Orange was undertaken. We have seen many varieties come and go. For thirty-eight years we have been growing citrus nursery stock. Naturally during these years we have learned much, and our work today is backed by an intimate knowledge of how to grow good Orange trees that is of the utmost value to our customers.



Homosassa Orange

Homosassa Orange

This is a real Florida Orange, a direct descendant of the early varieties introduced by the Spaniards. It is no hothouse variety, but a sturdy, dependable sort. Candidly we do not believe there is a variety of Orange in Florida that will outbear it, and it is the best we know of for its season—late November to early January. For marketing at this season, no mistake can be made in planting it. The fruit is of large size—remarkably so, considering how heavily it yields—orange-yellow in color, with thin, smooth, tough skin. Its flavor is sprightly, rich, and vinous; the juice is abundant; the quality excellent. It is a good shipper and it was with Oranges such as this that Florida's reputation as an Orange-producing state was established.

King Orange

The King Orange is the latest-maturing of the Mandarin (sometimes called the Kid-glove) group. It is ready for marketing in March and April. The fruit is of large size, flattened, deep orange in color, roughened and pitted on the surface, with a rather thick rind. The flesh is deep orange in color, quality excellent, with a sprightly agreeable flavor in which sweet and subacid are well blended. The tree is an upright grower, with very dark green, shiny foliage. It is a very prolific sort and this, together with its late-ripening season and high quality of fruit, have combined to make it a very profitable variety. It always commands a high price in the markets. In any mixed orchard it is well worth planting, and it has a place in every home grove. This side of citrus fruit culture is very often lost sight of. Our whole attention is so often given solely to our commercial work that we lose sight of fruits to be grown for home use, and which add so much to the comfort and joy of living.



**King
Orange**

Lue Gim Gong Orange (See illustration
page 8)

In 1886, Mr. Lue Gim Gong, a Chinaman, in his grove near DeLand, Fla., pollinated Hart's Late flowers with pollen from what was believed to be a Mediterranean Sweet Orange. An Orange resulting from this cross contained fifteen to eighteen seeds, and from these seeds twelve trees were raised, no two of which proved to be the same. One tree, the variety now known as Lue Gim Gong, when it came into fruiting, proved to be a decided improvement over Hart's Late, in fact, was a fruit quite out of the ordinary. From observations extending over a period of several years, it was found that in addition to being an Orange of fine appearance, of exceptionally good flavor and quality, it did not ripen until extremely late in the season; in fact, it was not fully ripe until several months after Hart's Late. Also, it was found that the fruit hung on the tree throughout the summer months with very little dropping. So convinced were we of its merits, that we entered into a contract with Mr. Lue Gim Gong for the exclusive right to undertake the propagation of the new Orange. Convinced that the Lue Gim Gong possessed merit in many particulars which placed it in a class by itself, we offered it to our customers for the first time in August, 1911. Several of our largest customers planted heavily of it and now report to us that it has proven out fully the splendid qualities we knew it possessed. In our own commercial groves we now have many acres of bearing trees of the Lue Gim Gong Orange. The most noted horticultural organization in the country today, as it has been for the past sixty years, is the American Pomological Society. This Society, recognizing the merits of the Lue Gim Gong Orange, awarded a Wilder Silver Medal to this variety. We believe this is the first time a Wilder Medal has been awarded for a new variety of Orange since the Society was organized, and gives a fair idea of the estimation in which this fruit is held by experts.

The Lue Gim Gong Orange is an established commercial success. Based on reports from our customers, and upon the behavior of bearing trees in our own groves, we give the following information: In size, the fruit is large, packing 126 to 176 per box; in form oblong, carrying its full diameter well

Southern Planting Facts

*Glen Saint Mary
Nurseries*

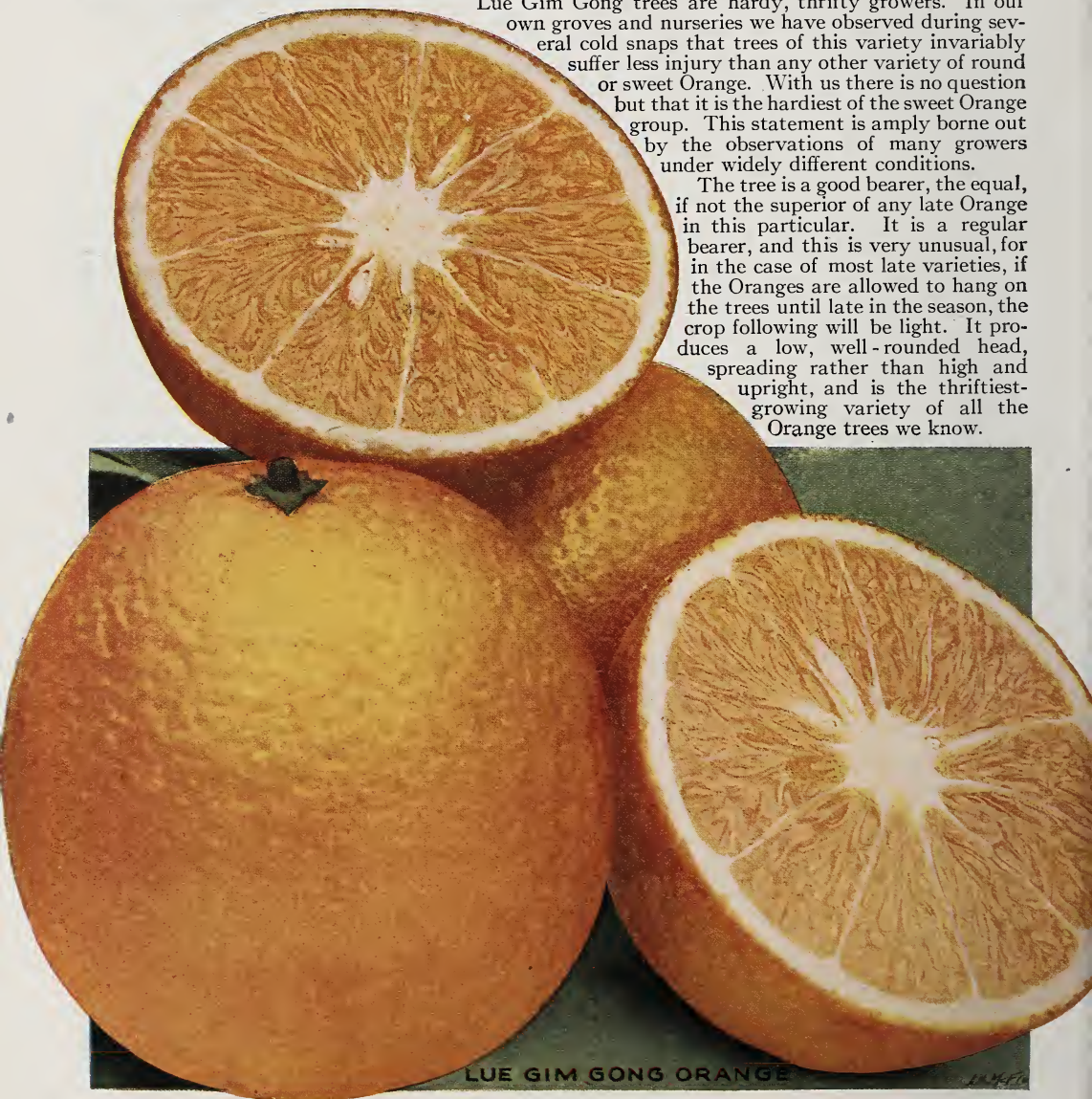
Citrus Fruits

Lue Gim Gong Orange, continued

down to the rounded base. The color is a deep orange-red; skin smooth; sections ten or eleven in number; flesh deep orange, very juicy, and free from rag. The flavor is a rich blending of sweet and subacid and, when fully ripe, of delicious, unsurpassed quality. It is nearly or quite seedless. The fruit is a good keeper and fine shipper and in itself is very hardy and resistant to cold.

Lue Gim Gong trees are hardy, thrifty growers. In our own groves and nurseries we have observed during several cold snaps that trees of this variety invariably suffer less injury than any other variety of round or sweet Orange. With us there is no question but that it is the hardiest of the sweet Orange group. This statement is amply borne out by the observations of many growers under widely different conditions.

The tree is a good bearer, the equal, if not the superior of any late Orange in this particular. It is a regular bearer, and this is very unusual, for in the case of most late varieties, if the Oranges are allowed to hang on the trees until late in the season, the crop following will be light. It produces a low, well-rounded head, spreading rather than high and upright, and is the thriftiest-growing variety of all the Orange trees we know.



LUE GIM GONG ORANGE

Lue Gim Gong Orange, continued

The fruit is edible in March and April, but is then too acid for most tastes. It begins to ripen in June, and from then on is delicious. It will hang on the trees for months, but for all practical purposes would be marketed as a remarkably late Orange for one year, say in June or July, or as an exceptionally early one for the next season, in September or October. Certainly there is no risk of violating the green-fruit law when shipped at the later dates. From our own groves, Lue Gim Gong has brought us splendid prices and now, with our complete knowledge of the variety, we unqualifiedly recommend it for commercial planting as a remarkable money-making Orange.

Owari Satsuma Orange

For many years it was believed that there was but one Satsuma Orange. The investigations of Dr. T. Tanaka, however, have shown that in Japan there are at least a half dozen well-marked varieties of Satsuma, with still others showing minor distinctions. A careful investigation of Satsuma orchards has been made in America by Dr. Tanaka and Mr. Leo. B. Scott, of the United States Department of Agriculture. They found that three strains of Satsuma have been unknowingly mixed together, propagated, sold, and planted. The result in the bearing orchards is most unsatisfactory, as the resulting crops are not uniform in size, quality, or time of ripening.

When the propagation of Satsumas was undertaken by the Glen Saint Mary Nurseries (trees were first offered for sale in 1888), but one single introduction was made. The propagating material of this strain came from Maj. O. P. Rooks, Fruitland Park, Fla. To this single introduction, all our subsequent propagations trace back. Orchards planted with Glen Saint Mary trees throughout the Gulf Coast country became noted for the fine, large, uniform, early-maturing crops of fruit they produced. An investigation made by Dr. Tanaka and Mr. Scott has shown that our trees in orchard and nursery consist of a pure strain—Owari Satsuma. This is the variety most commonly grown in Japan, where it has practically supplanted other strains. Through all these years—the past thirty-two years to be exact—this is the variety we have furnished our customers. This is so as the direct result of our policy of line propagation, beginning with a definite specimen of known worth. The fruits of Owari



Satsuma Oranges



Parson Brown
Oranges

Owari Satsuma Orange, continued

Satsuma are large, flattened, depressed at both stem and blossom end, deep orange in color, with thin smooth rind, which may be stripped from the pulp with the fingers without breaking the sections into which the fruit is divided (see illustration), and nearly or quite seedless. No citrus fruit that we know of surpasses a well-grown, well-ripened fruit of Owari Satsuma from our orchards. Trees of this strain are thornless, prolific, vigorous, rather upright growers. For years we have marketed our crop during October and early November, though sometimes we have shipped in September. Owari Satsuma is an extremely hardy tree, having gone through 15 degrees Fahr. without injury, and its natural hardiness is increased by budding on *Citrus trifoliata* stock. This is the only stock adapted to it, the only one on which we grow it. Young trees are heavy bearers, and under proper conditions an orchard of this variety brings early returns on the investment. It is particularly adapted to west Florida, southern Georgia, Alabama, Mississippi, Louisiana, and the Gulf Coast country of Texas. In this section Owari Satsuma should have a place in every home orchard, and in many sections it is a high-class commercially profitable orchard fruit. In the fall of 1918, Owari Satsuma fruit registered a new high price level of \$12.60 per strap.

Ruby Orange

A valuable variety, and, when well grown, it is not too much to say of Ruby that it is a standard of quality. This Orange came from southern Europe. It does not, like most Oranges, possess marked acidity, so can be shipped and eaten early in the season, November and December. As the fruit hangs on the trees longer, however, its full, rich flavor develops, the skin usually becomes streaked or mottled over with red, and toward the end of its season, about March, the entire pulp often becomes blood-red. The fruit is of medium size, about 176 to the box, usually somewhat flattened, skin thin, very tough; pulp melting, rich, juicy and of exquisite flavor; quality unsurpassed. Ruby on Rough Lemon root is earlier and its season not so long as when grown on other stocks. The tree is a good grower, dense foliaged, thornless, and a regular, prolific bearer.

Parson Brown Orange

Many early Oranges have been tried out, but of all these only one remains that can at this time be considered. It is not all that might be desired, but Parson Brown is, so far, the best early Orange that has been grown on a commercial scale. And it has made money on the early market, since it is the earliest variety that will stand the government acid test. Our strain of Parson Brown goes straight back to the original source, and we have been growing it in orchard and nursery for more than twenty-five years. We have selected and reselected it from bearing trees until we know there is no better Parson Brown than the old Carney Parson Brown, Glen Saint Mary-selected and -grown. It was introduced about 1878 by Capt. J. L. Carney, of Lake Weir, Fla., and soon attracted attention because of its early ripening habit and other desirable features. The fruit is of medium to large size, of good quality, and is ready for market in November or sometimes in October. For early market, it is the best early Orange to plant.



Seed-bed at Dundee, Fla., where our stocks are started

Pineapple Orange

The fame of this variety was established many years ago, and of all the Oranges which have originated in Florida it has been most largely planted. It often happens that varieties in favor at one time are later supplanted by others, but this has not been the case with Pineapple. No orchard planting today is contemplated without considering this variety, and we venture to say that so long as Oranges are grown in Florida the Pineapple Orange will make up a generous part of the output. It originated in the heart of the old citrus belt of Florida, near Citra, in the grove of Dr. James B. Owens. Because of its peculiarly fine flavor and its fancied resemblance in flavor to a pineapple, it was so named. The fruit was first marketed in quantity by Bishop, Hoyt & Co. It soon established a reputation, a reputation it has maintained and increased from year to year.

The fruit is of good size, a deeper, richer red in color than any other round Orange we know. Of course, it has to become well ripened before its full color develops, and in some localities it takes on higher color than in others. In quality it is unsurpassed, its flavor being a rich blending of sweet and subacid peculiar to the variety, and it not only resembles the pineapple in taste but also in odor. Pineapple Orange trees bear well. For its season, January to February, it has no superior. Groves planted to this variety are among the most profitable in Florida, and well-grown Pineapple Oranges will always command high prices. See illustration in natural colors on page 5.



2 to 3 ft.

3 to 4 ft.

4 to 5 ft.

5 to 7 ft.

2 year

Showing grades of trees as listed in prices on page 5

We are the largest growers of citrus trees in the world, and have been for many years, which is an indication that our stock has always measured up to our descriptions of it. Fruit-growing is a profitable business for us and will be for you if you plant the thrifty, vigorous trees such as we supply. Prices are steadily increasing and the demand is always ahead of the supply.



Tangerine Oranges

Dancy Tangerine Orange

This Orange, a "kid-glove" Orange by the way, is so often referred to as a fancy fruit that its real value as a straight money-making variety is often lost sight of. Plantings of Tangerines have proved to be very profitable, and quantities now produced are always marketed at good profit. Moreover, it ripens and is ready for market when its extremely high color lends most value to its sale.

The tree is compactly headed, dense, and rather upright, but tending to spread as it grows older, the head being opened by the weight of heavy crops of fruit. It is a very ornamental as well as a wonderfully prolific variety. This feature has been further increased in Glen Saint Mary trees by the careful attention we have given to its propagation for many years. The fruit is flat, of medium size, with very smooth rind and very high color; a brilliant deep orange-red, almost tomato-red, sets it in a distinct class from all other citrus fruits. The flesh is dark orange in color, with melting pulp, very free from fiber, and filled with delicious juice. Like Satsuma and King, the skin is very easily removed and the sections readily separated without breaking the juice sacs or soiling the fingers. Dancy originated in Florida, at Buena Vista, in St. John County, the original tree being raised by the late Col. Francis L. Dancy, and it was brought into cultivation about 1871. For the grower who desires to produce a high-grade fruit that is just a little out of the ordinary, Dancy Tangerine is a safe variety to plant.

Valencia Orange

See illustration on page 13

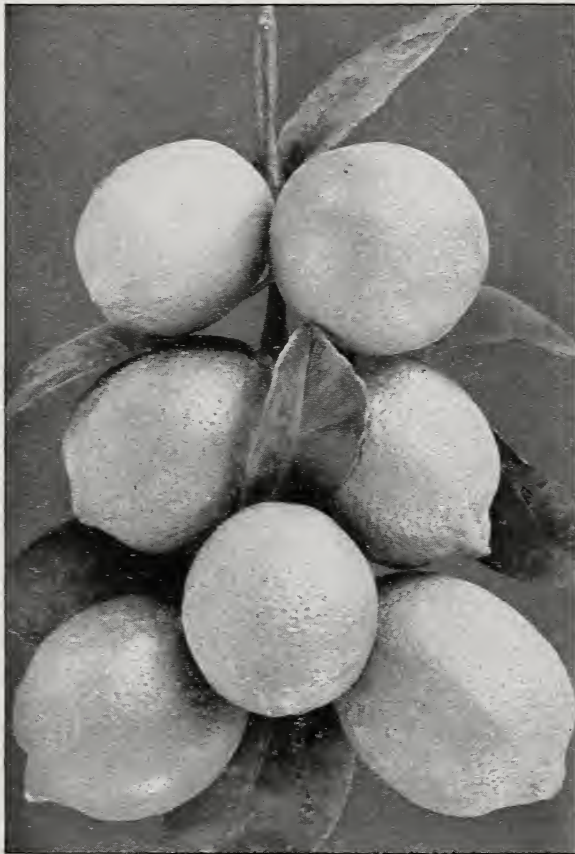
This Orange has been known by many names, Hart's Late, Tardiff, Valencia Late, etc. It came to America from Spain in different ways, but it is all one Orange. Today it is the most widely grown late Orange and the only one to be considered for its season, March to May. At this time of year, Oranges generally command a fine price, and, consequently, plantings of Valencia are very profitable. In planting Valencia, a locality must be selected that is reasonably free from frost, as the fruit remains on the trees throughout the winter months. Valencia fruit is of medium size, of good color, with thin skin, and firm, deep orange flesh. It contains only a few seeds. In quality, it is delicious, and in this respect nothing more could be desired. The tree is a strong grower, and our selected strain from one of the finest Valencia orchards in California is a good bearer. We have tested out a large number of different strains of Valencia and still have many of them in fruit in our test orchard at Winter Haven, Fla., where our customers may see them. While these show little or no variation in fruit or tree characteristics, we believe the one we are propagating is the most prolific.



Valencia Oranges

Washington Navel Orange

In many ways this is the most remarkable Orange grown today. It is the Orange which standardized the output of California citrus orchards, and perhaps it is not too much to say that this single variety has been in a large measure responsible for citrus development in that state. Florida growers are not, or should not be, interested in it, because it will not yield enough fruit to pay for planting it. Fruit can be secured from trees budded on Rough Lemon or *Citrus trifoliata* stocks, but even then it has no place in a commercial planting. We grow it for our trade in other countries. The fruit carries its own trade-mark—the navel marking on the blossom end of the fruit. In size, it is large, the pulp meaty, not so tender and juicy as some of the finer varieties, but still a very fine Orange. It is an excellent shipper, and its high color and seedlessness are other important points in its favor as a market fruit. It can be grown successfully on heavy soils, on sour orange stock, in irrigated districts, and for such localities it is highly recommended. Introduced from Brazil, in 1870, it was exhibited at Riverside, Calif., in 1879 and shortly after that its propagation and planting were undertaken.



Villa Franca Lemons

LEMONS

While not so hardy as the orange and pomelo, yet Lemons can be grown over a wide range of territory. Even in north Florida we have often been able to produce more fruit than we could use. Certainly no collection of citrus fruits for home use in the citrus belt is complete without a few Lemons, and in sections most immune from cold this fruit may be grown in quantity.

A number of years ago, before the newer sections of Florida were opened up, Lemons were raised in considerable quantities. A number of causes contributed to the reduction of the plantings, until at this time Lemons are grown in small numbers only. It is now quite certain that a return to the planting of this citrus fruit will make a profitable investment under proper conditions. The growing of Lemons for use in this state alone is an industry worthy of consideration.

Ponderosa Lemon

An exceptionally large Lemon, fruits weighing from $1\frac{1}{2}$ to $2\frac{1}{2}$ pounds. This fruit, while a great novelty, has at the same time a well-defined usefulness. The juice from one of them will make a large pitcher of lemonade. It can also be used in all the culinary ways in which ordinary Lemons are used. It makes a very fine, thrifty, ornamental tree and bears heavy crops when quite young. Two or three of these trees should be included in every home orchard planting.

Villa Franca Lemon

In our test orchards we have grown and fruited for years all the important commercial varieties of Lemons. As a result of these tests we are convinced that Villa Franca is the Lemon for Florida. It has taken first rank in many competitive exhibits, and is the variety to plant for either local use or for market. The fruit is juicy, strongly acid, and of fine quality, almost or quite seedless. The tree is quite free from thorns, a fine grower, and produces regularly fine crops of good fruit. A few trees to provide fruit for home use or for local market are a valuable addition to a citrus planting.

Citrus Fruits and Their Culture

By H. HAROLD HUME

This work is heartily indorsed by the leading growers of Citrus Fruits and is the standard work on the subject. The subject of Citrus Fruit growing is thoroughly covered in all its phases, from the preparation of the land and the planting of the trees to the marketing of the fruit. For the grower engaged in the production of first-class Citrus Fruit, it is an invaluable book. It contains 597 pages, well illustrated with line drawings and half-tone engravings. Price, postpaid, \$2.50.



Sister Tree to Duncan
 Though over eighty years old, these trees are still producing enormous crops of fruit

Original Duncan Tree

GRAPEFRUIT

The Grapefruit industry of today is a growth of not more than thirty-five years. The increase in cultivation, production, and use of Grapefruit is without a parallel in American horticulture. It is Florida's greatest single fruit contribution to the tables of the world, and it is in Florida that its culture has reached its greatest development. Its consumption has increased faster than the supply. Extensive advertising in various ways, resulting in wide distribution, has been a large factor in popularizing this comparatively new and very wholesome fruit. Prices obtained by Grapefruit growers during the past two seasons have been extremely good, and there is every indication that these will be maintained. In addition, it should be remembered that, tree for tree, a Grapefruit planting will produce twice the number of boxes of fruit that orange trees will at practically the same cost of production. For example, under the same conditions, assuming that a six-year-old orange tree will produce 2 or 3 boxes, a Grapefruit tree of the same age will yield 4 or 6 boxes. The market for Grapefruit is continually broadening, prices are good, the trees bear heavy crops, and considering the very limited area where real Grapefruit can be successfully grown, the outlook is very promising indeed.

We have tested out and are familiar with nearly all varieties. Those we list cover all requirements for general planting. While the ripening and marketing period of different commercial Grapefruits is not quite so distinctive as that of oranges, still the varieties we grow cover a wide marketing period. The variety or varieties selected for planting is largely a matter of personal preference, but we know that all varieties we offer are good and are desirable for planting.

Duncan

We consider Duncan the finest Grapefruit grown. During all the years we have been in the citrus business (and during this time we have grown, observed, and tested a host of varieties), we have never found a Grapefruit which is quite the equal of Duncan in all-round desirability. It has everything a Grapefruit should have, and is lacking in no particular. Its size is exactly what the markets want and pay best prices for—54's to 70's. Its shape is round, slightly oblate, and it packs well. Color a clear light yellow, with oil-cells showing through the smooth skin. The juice content is particularly heavy and possesses more than any other Grapefruit the true sweet-bitter-acid-grapefruit flavor. The season of this fine Grapefruit is an extended one. It is ripe enough in color and quality to ship in early December, and it can be held on the tree without deterioration until late in May. We have been propagating Duncan for more than a quarter of a century. Our first budwood was secured from the original tree, which is illustrated on this page. About a hundred and ten years ago, a Spanish nobleman, Don Phillippi, settled near Green Springs, in what is now Pinellas County. There he planted Grapefruit seeds and grew a citrus grove. This is the oldest Grapefruit planting of which we have a record, and doubtless many of the old seedling plantings throughout Florida owe their existence to this Spaniard's enterprise. One of his trees, still living, produced fine fruit, and seeds of it were supplied



Duncan Grapefruit

to his neighbors. Duncan is a seedling of this original tree and was first brought to notice by Mr. A. L. Duncan, of Dunedin, Fla. Mr. Duncan discovered the tree quite by accident. The fruit was served him at tea one Sunday evening by Mrs. J. G. Snedecor, the owner of the grove in which the original Duncan tree stood. It was of such exquisite quality and so superior to any he had known throughout his years of experience as a grower that he became deeply interested in it. He exhibited specimens at the horticultural society meeting where the fruit attracted much attention. The president of our company, Mr. G. L. Taber, secured budwood from the original tree through Mr. Duncan, grew trees of it, and first offered it for sale in the catalogue issued in September of 1895. Mr. A. L. Duncan said of it, "I do not know how either tree or fruit could be improved," and today it stands in a class by itself, even as it did then. We have been propagating Duncan ever since. The original Duncan tree at Green Springs, Fla., has weathered the storms, cold spells, and neglect of more than eighty years and is still bearing good crops. Through all the cold periods which we have experienced during the past quarter of a century, both in north and south Florida, we have observed that Duncan invariably has suffered less than any other variety. It is unquestionably the hardiest of all the Grapefruit.



Marsh Seedless

This fine variety originated at Lakeland, Fla., and was first brought to notice and grown by Mr. C. M. Marsh, about 1895. Its most marked characteristic is its practically seedless fruit. Its marketing season begins in January, and, because it is so nearly seedless, the fruit can be held on the trees later

Southern Planting Facts

*Glen Saint Mary
Nurseries*

Citrus Fruits

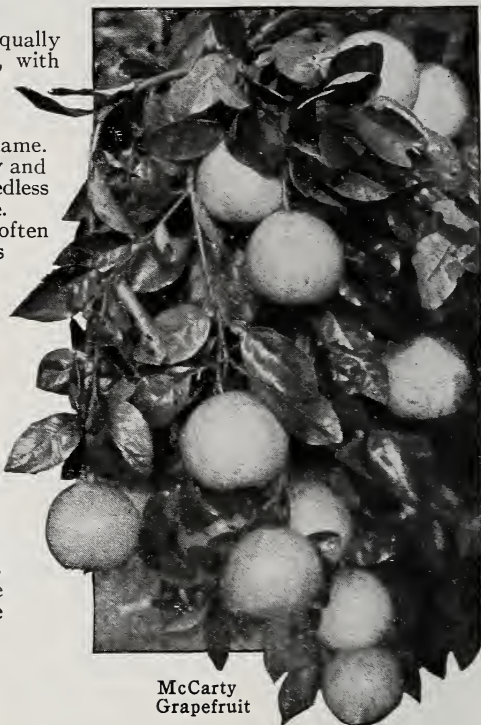
Marsh Seedless Grapefruit, continued

than all other varieties except McCarty, which is equally late. The fruit is very handsome in appearance, with smooth yellow skin. The quality is fine, a great favorite in the markets, and always commands good prices. It is becoming known as a distinct variety, and sells, not simply as Grapefruit, but under its own name. Like all other varieties of Grapefruit which we grow and recommend for commercial planting, Marsh Seedless fruits run in the sizes most desired by the fruit trade.

The tree makes a low, dense, spreading head, often measuring more across the spread of the branches than it does in height. It bears heavy, regular crops. In every well-balanced planting, Marsh Seedless should be given a liberal place.

McCarty Grapefruit

Many years ago the McCarty Grapefruit, an Indian River variety named after the late Mr. C. T. McCarty, attracted our attention. After keeping it under observation for several years, we decided to propagate it. It possesses in a marked degree the distinctive habit of producing its fruits singly instead of in bunches or clusters. This feature, coupled with its late ripening period and its very high quality have so impressed us with its merits that we have come to regard McCarty as one of the finest Grapefruits grown in Florida today. Because



McCarty
Grapefruit



Triumph Grapefruit

it does not grow in clusters, the fruit is very uniform in size and shape, and very free from those blemishes caused by clustering, such as extensive scale injury and misshapen fruits. We believe this variety is not surpassed by any other as a regular, uniform bearer. The fruit is of best market size, light, waxy yellow in color, with skin of beautiful texture. It is distinctly a fancy fruit; has a perfect Grapefruit flavor and the flesh is melting, free from fiber and rag when properly grown.

Triumph Grapefruit

For an early Grapefruit, particularly for home use or local market, there is no better variety. It is in good eating condition in November, and has a season of about eight weeks, depending upon the stock upon which it is propagated and the section in which it is grown. It is a very prolific sort, and the fruit, though smaller in size than our other varieties, runs very uniform. It is heavy, juicy, well flavored, and smooth skinned. It is sweeter than Grapefruit ordinarily is and of very fine quality. The tree is more susceptible to cold injury than our other varieties.

Silver Cluster Grapefruit

In some parts of southern Florida, the Silver Cluster Grapefruit is one of the most popular varieties. Some of the finest and most profitable Grapefruit groves are planted with this sort. The fruit is light yellow in color, of standard size, juice almost colorless, well flavored with a true Grapefruit mixture of flavors.

Silver Cluster Grapefruit can be shipped in December, but keeps well on the tree throughout the shipping season.

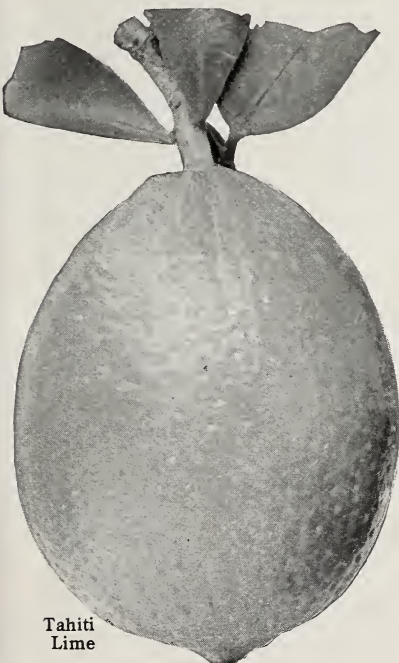
Walters Grapefruit

It is believed by some that this variety and Silver Cluster are the same, but this is not true. The origins of the two are entirely different, and in character of fruit, seeds, etc., they show distinct varietal characteristics. Walters is a splendid Grapefruit. It is ready for market, though not at its best, late in November, and keeps well on the trees up until about May. In size the fruit runs in favorite market sizes, 46's to 64's. It is a heavy

bearer of good quality fruit and we recommend it as a good variety for fairly early market.



**Walters
Grapefruit**



**Tahiti
Lime**

The Tahiti Lime

Of all the acid fruits which may be grown in Florida, the Tahiti Lime is one of the most satisfactory for home use as well as for commercial planting. It is not quite so hardy as the lemon and its culture should be confined to localities where there is little or no danger of injury from cold. It grows as a dense-foliaged, round-topped tree, 12 to 15 feet in height. It is a very vigorous grower and remarkably free from insect and fungous pests.

The fruit of Tahiti is of the finest quality for making ade. It is best suited for use when full size but while the skin is still green. In size and shape it resembles a small lemon, but it is a much smoother and nicer fruit. It is seedless, has a splendid Lime flavor, and is so much superior to other varieties of Limes that it is the only one we now propagate. Our experience has shown that the Tahiti Lime is a complete success on Rough Lemon stock. On this stock it makes a splendid growth and is very prolific. Matured fruit, partly grown fruit, and blossoms are found on the trees at nearly all seasons of the year, but the heaviest bearing season is in summer when the fruit is in greatest demand.



Nagami Kumquats

KUMQUATS

The Kumquat is the smallest of the citrus fruits in general cultivation in this country. Usually the plants are called bushes, for they do not make trees. The plant grows to a height of 10 to 12 feet, with a spread of branches about equal to its height. The bright, dark green leaves and deep golden yellow fruits make a very pleasing combination of color. The flowers are small, sweet-scented, and appear in June on the shoots produced earlier in the same season. The fruit ripens during the fall and winter, beginning with the month of November. As an ornamental alone, it is not surpassed by any other evergreen shrub with which we are acquainted.

In point of hardiness, the Kumquat ranks with the Satsuma orange. It will withstand temperatures of 15 degrees Fahr. and even lower.

We are the largest growers and shippers of this fruit in the country, having marketed from four to six hundred bushels of fruit annually for several years past. The crop has netted from \$2.50 to \$3.25 per bushel, sometimes selling as high as \$6 to \$10 per bushel. We have found it a profitable fruit to grow, as the trees yield well and can be planted close together. When gathering the crop we always cut the fruit from the trees with twigs and leaves attached, and pack a goodly proportion of leaves with the fruit. They are packed in quart baskets and shipped in strawberry crates. The fruit always sells better with foliage attached. This is an advantage, as the leaves help to fill up the baskets, and make a larger bulk than if the fruit alone were packed. The fruit is largely used for table decorations, and is in largest demand for Thanksgiving and Christmas holiday trade. Very appetizing jelly and marmalade may be made from the fruit, and it can also be crystallized. For commercial planting, or for use as an ornamental for home use only, Kumquats are well worth planting.

PRICES ON KUMQUATS—On Citrus trifoliata and Rough Lemon Stocks

	Each	Per 10	100
1-year buds, about 1 to 2 feet, stocky.....	\$1 50	\$12 50	\$100 00
2-year buds, about 2 to 3 feet, stocky.....	2 00	17 50	150 00

Marumi. Fruit round, about 1 inch in diameter; bright golden yellow. Rind sweet, with pleasant flavor; pulp and juice sprightly; very fine. Tree forms a well-rounded, symmetrical head.

Nagami. Fruit oblong, about 1½ to 2 inches long and 1 inch in diameter; fruit golden yellow; rind sweet; pulp and juice sprightly, of fine flavor. Tree forms a nice head, more open than Marumi.

Neiwa. Fruit round, slightly larger than Marumi; pulp sweet when fully ripe. Of recent introduction and very desirable. Best of all Kumquats to eat out of hand.

New and Uncommon Citrus Fruits

On this and the following page we are offering a few new or uncommon citrus fruits. After many years, the citrus fruits commonly grown in commercial plantings have become fairly well standardized. In reality, this is the outcome of a large experience gained by many growers in different parts of the citrus districts. Had it not been for the testing of many sorts, we would not today have the exact knowledge concerning the behavior of different varieties that we now possess.

The varieties described here are old enough to have been fairly well tested out, and they are, in our opinion, worthy of planting. Some of them, we believe, will secure a place in commercial plantings as soon as they become better known.

The home-orchard is a neglected side of citrus culture at this time. Citrus trees are almost invariably planted to supply fruit for some distant market, and the wonderful variety of very fine fruits for home use do not receive the attention they deserve. The varieties described here are well worthy of a place in the home-orchard. From time to time, in the future, it is our policy to add to this list from the number of new sorts now under test.

Calamondin

Small, 1 ¼ inches in diameter, deep orange-red, flattened, with thin skin, easily separated from the pulp; sections easily separated as in the Mandarin oranges; juice clear, strong acid (5 per cent), with a pleasant, peculiar flavor. Very hardy, prolific, ripening during November and December. This citrus tree is very hardy. In north Florida it has shown itself to be nearly or quite as hardy as the Satsuma orange. It is a very handsome tree and well worth planting for its ornamental effect. The juice makes an "ade" that can hardly be surpassed in quality.

Eustis Limequat

This new citrus fruit is the first of its kind offered to tree planters. It is the result of a cross made a number of years ago by Mr. Walter T. Swingle, of the U. S. Department of Agriculture, between the Nagami kumquat and a lime. Mr. Swingle was trying to secure a hardy acid fruit and has succeeded even beyond his greatest expectations.

The fruit is oblong or roundish oblong, somewhat larger than the ordinary run of Key or Mexican limes, with skin resembling that of the grapefruit in color and texture, but with a flavor or taste peculiar to itself. The acid is clear and strong and of finest quality. The tree resembles somewhat the Mexican lime in habit of growth. It is hardy and may be grown at least wherever the sweet orange can be produced, and the indications are that its culture may be extended beyond these limits.

The introduction of this fruit makes it possible to produce an acid fruit of finest quality throughout the entire sweet-orange area. It is a very important addition to our list of citrus fruits, whether for market or for home use.



Eustis Limequat

Foster Grapefruit (The Pink Grapefruit)

This variety of Grapefruit originated a number of years ago, as a bud sport on a tree of Walter's Grapefruit near Bradentown, Fla., and was introduced by Mr. E. N. Reasoner, Oneco, Fla., in ——. We have had this variety in fruit in our test-grove for a number of years and are very favorably impressed with its quality and general excellence. The flesh is purplish pink in color and in quality it ranks as one of the best of the Grapefruits. The outstanding feature of this variety is the very excellent quality it develops early in the season, and we class it as one of the best, if not the very best, early Grapefruit that we know of. It is well worthy of extended trial.

Mandarin Orange

The Mandarin or China Mandarin Orange is an old sort. It has distinct value as an ornamental tree and in some sections, notably in southern Louisiana, it is given preference in commercial plantings. Years ago we used to grow this variety in considerable quantity; then dropped it from our lists. Recently we have had so many inquiries for it that we are again growing a few trees of it.

The fruit is of medium size, flattened, deep yellow, with thin skin and loosely adhering segments. The flesh is dark orange-yellow, spicy, and of good quality.

The foliage is fine and small, and the growth willowy, combining to make it a very beautiful tree.

Thornton Tangelo

As its name indicates, this citrus fruit is the result of a cross between the Tangerine orange and the Pomelo or grapefruit. It originated a number of years ago as the result of a cross made by Messrs. Swingle and Webber of the U. S. Department of Agriculture. In habit of growth it is similar to the grapefruit, but the skin is easily removed from the flesh; in this particular it is like the tangerine. The fruit is smaller in size than most grapefruit (which, in general, it resembles). The flavor is very agreeable, a new combination of flavors, as might be expected from its origin. It is well worthy of a place in the home grove.

New and valuable citrus varieties on sour orange and rough lemon stocks. Calamondin Lime, Eustis Limequat, Foster Grapefruit, Thornton Tangelo. On *Citrus trifoliata* stocks, Calamondin Lime, Eustis Limequat, Mandarin Orange

Prices, \$1.50 each, \$12.50 per 10



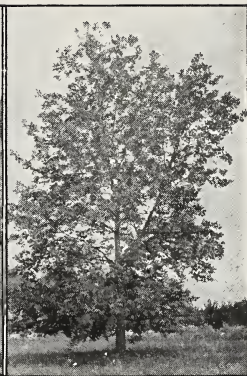
Foster Grapefruit



Teche Pecans



Block of Pecan Nursery Stock



Frotscher Pecan Tree

PECANS

In recent years the Pecan has become a very important nut, particularly in the Southern States, and it may be said that there is not other fruit or nut tree which fits so well into the general farming of this region as the Pecan. Cotton, corn, cowpeas and other farm crops can be grown to advantage among the trees when they are young, and even until the trees have begun to bear well. In short, the land may be farmed almost as though the trees had not been planted on it, yet the trees, under this management will grow and do well. The region in which the Pecan may be grown, with a proper selection of varieties, extends from Virginia to Florida, thence west into Texas and Oklahoma. It is destined to become the most important horticultural tree in this whole region, and the Pecan orchards of the South will rival the apple orchards of the North and Northwest. The Pecan, under proper conditions, will continue to bear fruit long after other fruit trees planted at the same time have ceased to grow; in fact, a Pecan orchard is equal to many peach orchards—for instance, in length of life and fruitfulness. As shade trees they make handsome specimens and they are well adapted for street, road, and yard planting.

Pecan Soils

While it is a fact that the Pecan tree will succeed on a wide range of soils, it is wise, since it is a valuable, long-lived tree, to choose good land for the Pecan planting. This soil should not be low and wet; it should be well drained, yet it should contain a goodly supply of moisture. Sandy loams underlaid with clay, light clay lands and alluvial lands are suitable. The land should contain humus in large amounts for best results. Before planting, the land should be thoroughly cleared of stumps and roots; if it is good farm land, and in good farming condition, it will be ready for planting at once, but new lands, or those deficient in humus or vegetable matter, should be well broken, and planted in cowpeas or velvet beans for at least one season before planting. In autumn, after the vines are dead and dry, they should be plowed back into the land, and the soil well harrowed, to put it in best condition. This will add the needed humus to the soil.

Cultivation

The best cultivation for a Pecan tree does not differ materially from that given other kinds of fruit trees. The orchard should be plowed in autumn. Cultivation should begin early in spring before growth starts and should continue at intervals of a week or ten days until about the first of July, when cultivation may be discontinued. If the land is planted in truck or farm-crops, there should be a strip of 5 or 6 feet on each side of the tree rows left unplanted. This strip should be cultivated regularly, to conserve moisture and keep the trees in good growing condition. In six to eight years after planting, the trees will begin to bear light crops, and by ten years they should be yielding fairly well. After this, it is doubtful whether it is good practice to continue cropping the land, both because the trees need the land and because the shade cast by them will interfere with the crops. Indeed, cropping may have to cease earlier, particularly if the trees are closely planted. Crops of cowpeas, beggar-weed or other legumes should be grown from time to time and turned into the land. A good fertilizer for young trees is one containing about 4 per cent ammonia, 7 per cent phosphoric acid and 3 per cent potash. For bearing trees increase the potash to about 5 per cent. Stable manure and wood-ashes can be used to advantage.



Curtis

Frotscher

Russell

Schley

PRICES ON PECANS.

	Each	Per 10	100
2 to 3 feet.....	\$1 00	\$9 00	\$85 00
3 to 4 feet.....	1 20	11 00	100 00
4 to 5 feet.....	1 50	13 00	120 00
5 to 7 feet.....	1 75	16 00	150 00

	Each	Per 10
7 to 9 feet.....	\$3 50	\$32 50
9 to 12 feet.....	5 00	45 00
12 to 15 feet.....	7 50	65 00

Larger sizes quoted on request

VARIETIES OF PECANS DESCRIBED

Curtis. A medium-sized Pecan, with bright, clean shell, marked with a few purplish specks; ovate, rounded at base, pointed at the apex; shell very thin; cracking quality excellent; kernel yellow, plump, full; rich, nutty flavor.

Frotscher. A large, oblong nut, $1\frac{3}{4}$ to $1\frac{7}{8}$ inches in length; bright yellowish brown in color with a few purplish black markings; shell very thin, cracking easily. Kernel large, easily removed, full, of good quality. Tree a vigorous grower, of spreading habit with scaly bark; bears heavy crops and can always be depended upon.

Moneymaker. Size medium, $1\frac{1}{4}$ by 1 inch, rounded, oblong; light yellowish brown shell of medium thickness, cracking easily; kernel full, plump, rich. A heavy bearer of splendid nuts.

Russell. A medium- or large-sized nut, $1\frac{1}{2}$ to $1\frac{3}{4}$ inches long, oval and pointed; grayish brown, with numerous small, purplish black markings. Shell thin, of excellent cracking quality; kernel plump and of good quality. A good grower and bears large and regular crops.

Schley. Size medium to large, $1\frac{1}{2}$ to $1\frac{7}{8}$ inches long; oblong, somewhat flattened; light reddish brown; shell thin, separating easily from the kernel; kernel full, plump, bright in color; flavor rich, nutty; quality best.

Stuart. Nuts large to very large, $1\frac{3}{4}$ to 2 inches long; oblong; brownish shell; strongly marked with dark color. Shell of medium thickness and of very good cracking quality. Kernel full, plump, bright-colored. Heavy bearer.



Stuart

Success

Teche

Van Deman

Nut Trees

Success. Size large, oblong, tapering to the apex. Color reddish brown, purplish markings, shell thin, cracking quality good, partitions thin; kernel large, full, plump, yellow; flavor sweet; quality very good. The tree is a good grower. A fine variety.

Teche. Size medium to large, oblong; grayish brown in color with a few dark streaks; base

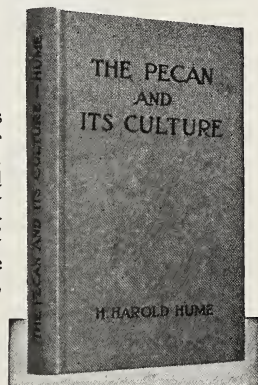
and apex rounded; shell medium; cracking quality good; kernel full, plump; quality good. One of the best.

Van Deman. Large to very large, from 1 7/8 to 2 1/8 inches long, rather slender, pointed at both ends. Color reddish brown, with purplish brown markings. Shell of medium thickness; cracking quality excellent. Kernel plump, bright, sweet.

The Pecan and Its Culture

By H. HAROLD HUME

Pecans are rapidly becoming one of the most important orchard trees in the South. In fact, for general planting they are entitled to first place because of their peculiar adaptability to many conditions and locations. The merits of this valuable nut are being recognized as never before, and the crop has gained a firm place in the markets of the country. To supply reliable information on Pecan-growing, this up-to-date work, touching every cultural detail, has been prepared after many years' careful study of the industry. The book is thoroughly practical and contains the information needed by every grower of Pecans. Third edition, 195 pages, cloth-bound; price \$1.50, postpaid.



WALNUTS

PRICES ON JAPAN WALNUTS FROM SEEDS.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 50
3 to 4 feet.....	75	6 50



Japan Walnuts

Japan Walnut. In the development of the nut industry, the Japan Walnut is well worthy of a place in every planting, and no home orchard should be without a few trees. They should be planted on well-drained land—a sandy or clay loam with a clay foundation is well adapted. The tree is a vigorous grower, and comes into bearing early. In habit of growth it is low and spreading, reaching a height of 15 or 20 feet, with a spread of branch of about the same distance. It

makes a beautiful lawn or shade tree. The leaves are large and handsome. The nuts are borne in clusters of fifteen to twenty. They have rather thick shells, with sweet, plump kernels of very fine quality. This Walnut may be grown on well-drained lands over a wide range of territory. It may be grown as far north as New York state.

ALMONDS

PRICES ON ALMONDS.—On Peach stock.

	Each	Per 10
1-year, 2 to 3 feet.....	\$0 50	\$4 50
1-year, 3 to 4 feet.....	75	6 50

Not certain bearers in the South, and are not recommended except for garden planting. We offer two of the finest varieties, Sultana and Princess, the soft-shelled Almonds of commerce. The Almond is adapted to dry, well-drained soils. It cannot be grown successfully on soils in which there is an excess of moisture.



Florida Gem Peaches



Fig Trees in Nursery



Terrell Plum Tree

Deciduous Fruits

In the lower South there are a number of deciduous fruits of decided merit which may be planted to advantage either in commercial orchards, or for home use. The most important of these are Peaches, Plums, Persimmons, Figs, Pears and Grapes. To a less degree, Pomegranates, Mulberries, Quinces and Apples are well worth while, in many sections. It may seem strange to include the Pear, for instance, but the Pear, since the introduction of blight-resistant varieties, is coming back again. We have a large number of these under test.

There are several distinct features in favor of deciduous fruits. Planting can be easily established at low cost, and results are quickly secured. When intelligently handled, they give very satisfactory results.

PEACHES

For thirty-eight years we have been studying Peaches. During this period we have originated and introduced a large number of different kinds. We have throughout this period been growing nursery trees. Our land is particularly adapted to the growing of fine Peach stock, and we are able to offer our customers the best trees that can be produced. They are well-grown, true to name,—in short, "Quality trees" of the very best strains.

Varieties should be carefully selected, to have them adapted to the section where they are to be planted. This done, good trees planted on new land with good drainage, and carefully cultivated, will bring quick returns, and are among the most satisfactory fruits that can be grown.

The types of Peaches are as follows: *Persian*, commonly planted in the North. *Northern Chinese*, which includes Elberta and related varieties, generally planted in the cotton-belt; well adapted to western Florida. *Spanish*, native varieties that have originated in Florida and on the Gulf Coast, adapted to the latitude of northern Florida. *Honey*, comprising the Honey and its seedlings, adapted to northern Florida, southern Georgia and westward around the Gulf. *Peen-to*, comprising the original Peen-to and the varieties originated from it; well adapted to Florida, tropical and subtropical regions. Jewel is the most important commercial variety in the group. *Oriental Bloods*, Red Ceylon, adapted to the same range as Peen-to, and Japan Dwarf Blood to the same territory as the Honey Peach.

PRICES ON PEACHES—On Native Peach Stock.

	Each	Per 10	100
2 to 3 feet.....	\$o 40	\$3 50	\$30 00
3 to 4 feet.....	55	5 00	45 00
4 to 6 feet.....	75	6 50	55 00

LIST TO AID SELECTION

In assigning varieties to districts of wide area, there will be local exceptions, but the following lists are based on many years of extensive planting, experimenting, research and observation.

SUCCESION OF RIPENING.—The terms "very early," "early," "midseason," and "late," in the following list (as indicated to the right of each variety by the abbreviations "VE," "E," "M," "L") indicate the general comparative ripening time of the variety.

Deciduous Fruits

EXPLANATION OF LIST.—The varieties best adapted and most valuable for market in a particular section are indicated by two asterisks (**); varieties next in order of merit by one asterisk (*).

LIST A.—Peaches for South Florida, West Indies and Other Subtropical and Tropical Sections

**Angel	E	**Florida Gem	E	**Imperial	E	*Taber	E
*Colon	E	Gibbons' October	L	**Jewel	VE	**Triana	E
**Dorothy N.	M	**Hall's Yellow	E	**Peen-to	VE	Victoria	L
Estella	L	*Honey	E	**Suber	VE	**Waldo	VE

LIST B.—Peaches for Eastern North Florida

**Angel	E	*Gibbons' October	L	**Jewel	VE	**Taber	E
**Colon	E	**Glen		*Onderdonk	M	**Triana	E
*Dorothy N.	M	*Hall's Yellow	E	Pallas	E	*Victoria	L
**Estella	L	**Honey	E	Peen-to	VE	**Waldo	VE
**Florida Gem	E	**Imperial	E	*Suber	VE		

LIST C.—Peaches for West Florida and Lower Georgia, Alabama and Mississippi

**Alexander	VE	**Estella	L	*Imperial	E	*Taber	E
Angel	E	*Florida Gem	E	Jewel	VE	*Triana	E
**Belle of Georgia	M	*Gibbons' October	L	**Mamie Ross	E	**Triumph	VE
**Carman	E	**Glen		*Mayflower	VE	*Victoria	L
**Colon	E	**Greensboro	VE	*Onderdonk	M	Waldo	VE
**Elberta	M	*Honey	E	*Pallas	E		

LIST D.—Peaches for Coastwise Texas and Louisiana

**Alexander	VE	**Estella	L	*Imperial	E	**Taber	E
*Angel	E	**Florida Gem	E	*Jewel	VE	**Triana	E
*Belle of Georgia	M	*Gibbons' October	L	**Mamie Ross	E	**Triumph	VE
**Carman	E	**Greensboro	VE	*Onderdonk	M	*Victoria	L
**Colon	E	*Honey	E	*Pallas	E	*Waldo	VE
**Elberta	M						

LIST E.—Peaches for Other Sections of the United States

Adapted to most of the Peach sections of the country outside of the regions previously listed.

**Alexander	VE	Estella	L	Imperial	E	Taber	E
*Belle of Georgia	M	Florida Gem	E	*Mamie Ross	E	Triana	E
**Carman	E	Gibbons' October	L	Onderdonk	M	**Triumph	VE
Colon	E	**Greensboro	VE	Pallas	E	Victoria	L
**Elberta	M						

VARIETIES OF PEACHES DESCRIBED

The abbreviations in parentheses below, following the names of varieties, indicate the race to which they belong. Thus (Sp.) means that the variety belongs to the Spanish race; (Per.) to the Persian race; (N.C.) Northern Chinese; (Hon.) Honey; (P.-to.) Peen-to; (O. B.) Oriental Bloods. The dates given for the usual time of ripening are based on northern Florida.

Alexander. (Per.) Large; highly colored; flesh greenish white, juicy, vinous, of fair quality; cling. One of the earliest of the Persian type. About June 1.

Angel. (P.-to.) Large, rounded, slightly pointed; color yellow, washed with red, very handsome; flesh white, sweet, melting, juicy, subacid, of exquisite flavor, entirely lacking in bitter-almond flavor; freestone. The tree bears while young, and is very prolific. It blooms a month later than Peen-to, thus escaping injury from frost in many sections. June 20 to 30.

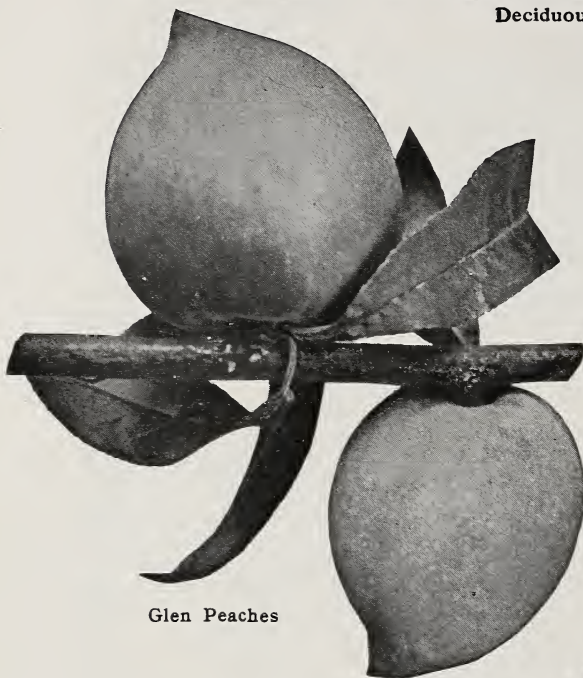
Belle of Georgia. (N. C.) Very large; skin white, with red cheek; flesh white, firm and of

excellent flavor; fruit uniformly large and showy; free. Rapid grower; prolific. July 1 to 15.

Carman. (N. C.) Of large size, resembling Elberta in shape; skin creamy white or pale yellow, with deep blush; flesh tender and of fine flavor; juicy freestone. Prolific bearer and profitable market variety. June 10 to 20.

Colon. (Hon.) Large, roundish oblong; skin white, overspread with red; flesh white, streaked with red, sometimes almost solid red; very juicy, subacid, high-flavored, delicious; freestone. Remarkable among Honey derivatives for its snap and tone. Good grower and prolific. Introduced by ourselves in 1893-94. June 15 to 25.

Deciduous Fruits



Glen Peaches

Dorothy N. (P.-to.) A seedling of Angel, and a very handsome Peach, of large size and fine quality. Shape nearly round, flesh yellow; rich subacid, of excellent flavor. It bears well, and is valuable for southern Florida. In its season, July 5 to 15, one of the best for market or home use.

Elberta. (N. C.) Very large; yellow, with red cheek; flesh juicy, yellow and high-flavored; free. One of the finest and most valuable varieties, and perhaps more largely planted than any other one variety in America. Succeeds in west Florida and throughout the territory northward, but not in south Florida. July 5 to 20.

Estella. (Sp.) Almost round, very large; skin yellow or greenish yellow, with full red cheek; flesh yellow; freestone. Tree vigorous and very productive. Originated in west Florida. Ripens September 1 to 10, just when there is but little southern fruit in market.

Florida Gem. (Hon.) A Honey seedling of large size; roundish oblong, pointed; highly colored; flesh sweet, rich, juicy, red at the stone; very fine; free. One of the most valuable market varieties of Honey strain. July 1 to 10. (See page 26.)

Gibbons' October. (Sp.) A medium to large freestone, of the Spanish group, in quality unexcelled by any extremely late Peach that ripens

this far south. Tree vigorous and handsome. Sept. 25 to Oct. 15.

Glen. (P.-to and H.) A large, oval, pointed Peach, a Peen-to-Honey cross; blunt-pointed, with deep suture; yellow, dotted and washed with red, practically red all over; skin thin, tough; flesh free, light yellowish, red about the pit; shipping quality excellent. Season June 1 to 15. A very desirable sort, and a most profitable one for market.

Greensboro. (Per.) Originated in North Carolina and is being extensively planted in the central South. Of good size, nearly round; skin highly colored, bright red over yellow; flesh white, very juicy and of fine quality. Semi-cling. Valuable market variety. About June 1.

Hall's Yellow. (P.-to.) Large size, nearly round; yellow washed with red; flesh yellow, red at stone, from which it parts freely. Quality good. Ripens middle to latter part of June.

Honey. (Hon.) Medium size, oval, compressed, with deep suture on one side, extending more than half way round, and terminating in a sharp, peculiar, recurved point; skin whitish yellow, washed and marbled with red in the sun; flesh creamy white, fine, juicy, melting with peculiar honeyed rich, sweet flavor; quality excellent; free. June 5 to 20.



Luttichau Peach (see page 29)



Glen Saint Mary

Jewel Peaches

Imperial. (Hon.) Very large, roundish, oblong; skin greenish yellow, washed with red; flesh white, sweet, juicy, of excellent flavor and good tone; quality best; free. Originated by ourselves. June 25 to July 5.

Jewel. (P.to.) Medium to large; rounded to oblong; highly colored, red on exposed parts; flesh yellow, red about the pit, juicy, melting, sweet; excellent quality; freestone. Ripens about two weeks earlier than Waldo. A good shipper; tree very vigorous and healthy. This is the most valuable market variety for southern Florida and all tropical and subtropical regions. It stands without an equal as the commercial market variety for these sections. We introduced this variety years ago and have made it one of our special lines of stock ever since.

Luttichau. Size large; oval, with medium deep suture, rounded or blunt pointed at apex; color waxy greenish white washed or blushed with red, dotted on shaded specimens; skin thin, tough; flesh white, red at pit, solid, juicy, flavor sweet, quality excellent; pit medium-sized, free; a splendid shipper. Season May 25 to June 10. This fine Peach originated on the place of Baron H. von Luttichau, Earleton, Fla., a number of years ago. Mr. von Luttichau propagated from it and planted an orchard of his own which proved very profitable, the fruit bringing the top price wherever marketed. Originated in the same region as Jewel, Waldo and Angel. We have known this variety for years, are well acquainted with its merits and regard it as one of the finest commercial Peaches for Florida. (See page 28.)

Mamie Ross. (N. C.) A seedling of the Chinese Cling which it much resembles. Fruit

almost as large as the Chinese Cling; white, nearly covered with delicate carmine; flesh white, juicy and of good quality. A regular and prolific bearer. Popular in Texas, where it is esteemed the finest early cling. June 15.

Mayflower. (Per.) Large; well-colored; red all over; of fine quality; cling. A very promising variety. Its earliness, high color and excellent quality are strong points in its favor. One of the earliest of its group.

Onderdonk. (Sp.) Large; skin and flesh yellow; very juicy and sweet; free. Originated in Texas. A valuable combination of quality, appearance and productiveness. Last of July.

Pallas. (Hon.) Good size, nearly round; deep red, dotted with salmon and tipped with light yellow at the base and apex; flesh white, fine-grained, melting, with a rich, vinous aroma; quality excellent; free. Seedling of Honey. Succeeds well along the Gulf Coast from Florida to southern Texas. June 20 to 30.

Peen-to. (P.to.) A curiously formed Peach, flattened at both ends; color greenish white, washed with red on exposed parts; flesh light yellow, sweet, rich, juicy, of good flavor, with a slight bitter-almond flavor; cling, pit small, flat. Peen-to and its seedlings are among the most tropical Peaches. Ripens in northern Florida May 20 to June 3.

Suber. (P.to.) Seedling of the Peen-to, originated at Lake Helen in southern Volusia County. Not materially different from Bidwell's Early, except that it is larger, firmer, and a little more acid than the latter. Tree is a vigorous grower, prolific, and the fruit brings a high price in market.

Southern Planting Facts

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Taber. (Hon.) Large, roundish, oblong, pointed; skin white, overspread with red; flesh white, streaked with red, firm, very rich, juicy subacid, of fine quality; cling. Honey seedling, prolific. Fine for canning. June 15 to 25.

Triana. (Hon.) Medium to large, roundish oblong, slightly pointed; skin white, overspread with red; flesh white, with red markings, rich, juicy, very sweet and of fine flavor; freestone. This variety, originated by us several years ago, is one of the very best. June 25 to July 5.

Triumph. (Per.) Ripens with Alexander; blooms late. Strong grower; bears young and yields abundantly. Fruit is of large size, with

very small pit; skin yellow, nearly covered with red, dark crimson in the sun; flesh bright yellow, free when fully ripe, of excellent flavor.

Victoria. (Sp.) Very large, nearly round; skin yellow; flesh yellow, juicy, sweet, excellent flavor; free. One of the best native varieties, worthy of a place in every southern orchard. Fine for either cooking or canning. August 5 to 10.

Waldo. (P.-to.) Size medium, round, oblong; highly colored, light yellow, dark red on exposed parts; flesh yellowish white, red at the stone, juicy, melting, sweet, of excellent quality; freestone; prolific. Ripens with Peen-to. Valuable for Florida and the Gulf Coast country.

JAPAN PERSIMMONS

Since its successful introduction into this country in 1875, the Japan Persimmon (*Diospyros Kaki*) has been slowly but steadily gaining in favor. Since native Persimmon seedlings (*Diospyros virginiana*) are used as stocks on which to grow the Japan sorts, they can be grown on as wide a

range of soil as the native Persimmon, and it is not too much to say that they will succeed with the minimum of care and attention with which any fruit may be successfully grown. At the same time, they respond generously to good care and cultivation. The trees are vigorous, prolific and have few enemies. The region in which the Japan Persimmon may be grown covers the cotton-growing belt. A carefully selected list of varieties will give fruit in abundance from August to December and later. During a very considerable portion of this period other fruit crops are out of season.



Staminate Flowers of Gailey Persimmon

Produced in greater numbers than the pistillate flowers on other sorts.



Pistillate Flowers of Japan Persimmon

Note how different they are from the staminate ones. This kind will produce fruit if pollinated.

Cause and Cure of Dropping

In 1909 we discovered the cause of the dropping of immature or partly developed Persimmon fruit, and, from that date until the present, much time and study have been given the problem.

Examine the pistillate flowers of a Japan Persimmon such as illustrated on page 30 and it will be noted at once that there is no pollen in them to fertilize the pistils and cause seed to form and fruit to set. This was our first discovery. Then, in April, 1909, we found that another kind of flower is sometimes borne on Japan Persimmon trees. These were entirely different in shape, smaller in size, and contained well-developed stamens with plenty of pollen. Only three flowers were found then, but the pollen from these was used on the blossoms of varieties that would not hold their fruit, and the fruit matured. During the seasons following thousands upon thousands of hand pollinations were made, with uniformly good results. The fruits held and grew to maturity.

The next step was to find a Japan Persimmon that could be depended on to produce pollen-bearing flowers every year. This was found later in 1909, and in 1915 we introduced the Gailey Persimmon. This variety has been tested out in orchard plantings, and its pollen carried by bees and other insects has caused good crops of fruit to set. The pollen from native Persimmon trees will not help. Although many thousands of hand pollinations have been made with native Persimmon pollen, so far no seed has been secured and the pollen of the native Persimmon has not helped the setting of fruits on the Japanese varieties. Hence the Persimmons planted to furnish pollen for the Japanese persimmons must also belong to the same group.

Gailey Persimmon Introduced

We introduced the Gailey Persimmon in 1915. It is not recommended for its fruit, for, though good, it is small, but it is introduced to be planted along with other varieties to supply their flowers with pollen and insure crops of fruit. One tree of Gailey should be planted with every seven or eight of every variety of our list, except Tane-Nashi. Tane-Nashi will hold fruit without pollination.

Now, it must not be expected that the presence of Gailey trees in an orchard will cause every flower to set fruit. It would be a misfortune if it did that, for the trees would be so overloaded that they could not thrive. Neither will they take the place of suitable soil and climate, good care, good cultivation, cover-crops and fertilizer; but, given these, Gailey will insure crops of fruit on Japan Persimmon trees.

PRICES ON PERSIMMONS.

	Each	Per 10	100
2 to 3 feet.....	\$0 40	\$3 50	\$30 00
3 to 4 feet.....	55	5 00	45 00
4 to 5 feet.....	75	6 50	55 00
5 to 7 feet.....	1 00	9 00	80 00
2 years, Tane-Nashi only.....	1 50	12 50	

New Persimmon, Fuyugaki

In connection with our Persimmon investigations which led up to the discovery of why the trees dropped their fruit, and the introduction of staminate Persimmon varieties, we introduced and have tested a very large number of varieties from different parts of the world. Among these Persimmons was one sent us by the section of Seed and Plant Introduction, U. S. Department of Agriculture, Washington, D. C., in 1913, under the name *Fuyugaki*. This variety possesses several characteristics which place it in a class by itself. So far as our observation goes it is never astringent, it is always light fleshed, it is edible while still hard and may be peeled and eaten like an apple. It keeps well, and in quality it is one of the very best. The fruit is of medium size, rather flattened, beautiful deep red in color, and the tree is very prolific. We believe this variety will surpass all other Japan Persimmons so far introduced as a market fruit. It can be placed on the market while still hard, and can be eaten without waiting for the fruit to soften.

PRICES ON FUYUGAKI PERSIMMON.

	Each	Per 10	100
3 to 4 feet.....	\$1 00	\$9 00	\$80 00
4 to 5 feet.....	1 50	12 50	100 00
5 to 7 feet.....	2 00	17 50	

DO NOT FAIL TO INCLUDE THE GAILEY PERSIMMON IN YOUR ORDER

VARIETIES OF PERSIMMONS DESCRIBED

Gailey. Small, oblate-conical, apex rounded, with small sharp point often marked with circular lines; color dull red, surface pebbled; flesh dark about the seeds, meaty, firm, juicy; seeds flat, oval, rather long. This variety is noteworthy for the production of staminate flowers for the pollination of the pistillate flowers of other varieties. Original tree on our grounds near Eagle Lake, Fla. A new and valuable introduction, recommended for its flowers, but not for its fruit.

Hachiya. Very large, oblong, conical, with short point; very showy; diameter $3\frac{3}{4}$ inches longitudinally and $3\frac{1}{2}$ inches transversely; skin bright dark red, with occasional dark spots or blotches and rings at the apex; flesh deep yellow, with seed. Astringent until ripe, then very fine. The largest and handsomest of all. Tree vigorous.

Hyakume. Large to very large, varying from roundish oblong to roundish oblate, but always somewhat flattened at both ends; generally slightly depressed at the point opposite the stem; diameter $2\frac{3}{4}$ inches longitudinally and $3\frac{1}{2}$ inches transversely; skin light buff-yellow, nearly always marked with rings and veins at the apex; flesh dark brown, sweet, crisp and meaty, not astringent; good while still hard. The tree is of good growth and a free bearer.

Okame. Large, roundish oblate, with well-defined quarter marks, point not depressed; diameter $2\frac{3}{8}$ inches longitudinally and $3\frac{1}{2}$ inches transversely; skin orange-yellow, changing to brilliant carmine, with delicate bloom and waxy, translucent appearance; light clear flesh when ripe, with light brown center around the seeds, of which it has several; loses its astringency as soon as it begins to ripen; quality fine. Tree strong, vigorous in growth and a good bearer.

Ormond. Small to medium, $2\frac{5}{8}$ by $1\frac{7}{8}$ inches, conical, smooth; apex tapering, sharp, not creased, or only slightly marked; base rounded to the firmly attached, strongly reflexed calyx; color deep bright red with thin bloom; skin thin, tough; flesh orange-red; meaty, or jelly-like when fully ripe; seeds large, long, pointed. Quality very good. Ripens late (December) and may be kept for a long time after being gathered.

Tamopan. Fruit large to very large, specimens often weighing one pound each; flattened, oddly marked by constriction about the middle; color golden red; fruit astringent until fully ripe; quality very fine; a vigorous grower and makes



New Persimmon, Fuyugaki

This noteworthy Persimmon is different from other varieties and so superior in its quality that it should be widely and generally planted for market.

a large tree. Introduced from China by Mr. Frank N. Meyer.

Tane-Nashi. Large to very large, roundish, conical, pointed, very smooth and symmetrical; diameter $3\frac{1}{4}$ inches longitudinally and $3\frac{3}{8}$ inches transversely; skin light yellow, changing to bright red; flesh yellow and seedless; quality very fine; perhaps the most highly esteemed of the light-fleshed kinds. Vigorous; prolific. The most desirable market variety.

Triumph. Medium, tomato-shaped; skin red; flesh yellow; generally has a few seeds; very productive; quality best. Ripens from September to December. Excellent for home use or for market.

Tsuru. Large, slender, pointed; longest of all in proportion to its size; diameter $3\frac{3}{8}$ inches longitudinally and $2\frac{3}{8}$ inches transversely; skin bright red; flesh orange-yellow, astringent until fully ripe, quality good. Ripens very late. Tree vigorous; good bearer.

Zengi. The smallest of all; round or roundish oblate; diameter $1\frac{3}{4}$ inches longitudinally and $2\frac{1}{4}$ inches transversely; skin yellowish red; flesh very dark, quality good; seedy; edible when still hard; one of the earliest. Vigorous and prolific.

PLUMS

In the extreme South, particularly in central and south Florida, southern Texas, and, in fact, all along the Gulf Coast, the pure-bred Japanese varieties have not been good bearers, consequently were not generally profitable. But cross-bred varieties—Japanese varieties crossed with native varieties—have proved heavy annual bearers. These cross-bred varieties have made commercial Plum-growing not only possible, but worthy the attention of fruit-growers even in south Florida and northern Mexico. Of these cross-bred Plums we can heartily recommend Excelsior, McRea and Terrell. These are excellent kinds, heavy bearers, and have given our customers satisfaction over a very wide range of territory.

PRICES ON PLUMS.—On Marianna Plum Stock.

	Each	Per 10	100
2 to 3 feet.....	\$0 40	\$3 50	\$30 00
3 to 4 feet.....	55	5 00	45 00
4 to 6 feet.....	75	6 50	55 00

Abundance. Medium to large; round with blunt-pointed apex; pinkish red changing to purplish red with thick bloom and numerous medium-sized dots; flesh greenish yellow, juicy, sweet or slightly subacid; pit small; cling; quality best; prolific; strong grower. A popular and profitable early Plum for planting in northern sections and in many parts of the South.

Burbank. Size large to very large; rounded and blunt-pointed; dark red, mottled, over

yellow ground; thick bloom and numerous large dots; flesh deep yellow, juicy, sweet, firm; pit small; cling; quality one of the best. Tree very vigorous, upright branches with large leaves. Very popular both North and South, but not adapted to the lower South.

Chabot. Fruit large, about 2 inches in diameter, oblong-conical; color pink-red, with numerous small dots; flesh yellow, solid, tart; cling; quality very good. Tree vigorous in growth.



Excelsior Plums. Natural size

Kelsey. Size very large; heart-shaped, long-pointed, usually lop-sided with deep suture; color greenish yellow sometimes flushed with red covered with thick, bluish bloom; very showy; flesh light yellow, meaty; flavor rich, pleasant, quality excellent; prolific and bears while young. Highly recommended.

McRea. (Hybrid.) Fruit of medium size, flattened, rounded, oblique at apex; yellow under-color washed with dull red, dotted with small, light dots and covered with delicate bluish bloom; flesh yellow, juicy, subacid, firm; flavor aromatic, pleasant; quality excellent; prolific, good grower. We believe this worthy of extensive planting.

Persian Purple-leaved (*Prunus pissardii*). Fruit medium, round; fruit and flesh crimson; quality good, cherry-flavored. Tree a good grower; valuable as an ornamental, as it retains its vivid purple foliage until late in the season.

Red June. Fruit medium to large, cordate, elongated at the apex, lop-sided; suture deep; color vermilion-red all over with delicate bloom; very showy; flesh light, yellow, firm, moderately juicy, sweet or slightly subacid; pit small; cling; flavor pleasant; quality very good. Tree vigorous and prolific. A good variety.

Satsuma. Medium to large, broadly conical, with blunt, short point and deep suture; color dark, dull red all over with greenish dots; flesh purplish red; pit small; free; firm, juicy; quality excellent; a splendid keeper and good shipper.

Terrell. (Hybrid.) A strong, healthy grower; very similar in habit to Excelsior; fruit large, $1\frac{1}{2}$ to 2 inches in diameter, nearly round, blunt-pointed; color a beautiful reddish yellow, mottled, covered with bloom, wine-colored when fully ripe; flesh greenish yellow, meaty, juicy, slightly subacid; pit small; cling; quality excellent. Recommended as one of the finest Plums for the Gulf Coast country.

Wild Plum. From some points where Excelsior and other hybrid Plums have been planted, we have received reports of heavy blooming with no fruit-setting. This condition is probably brought about by lack of pollen from another tree. We have propagated a few Wild Plum trees which bloom with Excelsior, McRea, and Terrell. These will serve as pollenizers and will probably overcome the difficulty.



Terrell Plum

Excelsior Plum (See illustration, page 33)

This Plum originated at the Glen Saint Mary Nurseries in 1887, and, first offered to the public in the winter of 1891-92, is today the most noteworthy Plum in the belt comprising northern Florida and the southern part of the Gulf States around into Texas. It originated from seed of the Kelsey Plum and was selected out of a number of Kelsey seedlings by Mr. G. L. Taber.

Excelsior shows decided evidence of being crossed with some variety of the Chickasaw type, and is a well-marked hybrid. The tree is a remarkably rapid, vigorous grower, and is often so loaded with fruit that the branches must be pruned to prevent breaking.

Fruit medium large, $1\frac{1}{2}$ inches in diameter, nearly round, no suture; color deep wine-red, with thick, bluish bloom and very numerous small dots; when fully ripe the fruit is almost purplish red; stem short; skin thin, tough, not bitter nor astringent; flesh firm, juicy, yellowish with reddish color near the pit; quality excellent, flavor subacid; pit small; cling. The earliest Plum to ripen in Florida—about June 1 to 10. Very handsome, and a fine shipper. More fruit of this variety is grown throughout northern Florida than of all other varieties of Plums put together.

We do not hesitate to say that Excelsior, Terrell and McRea are the most satisfactory varieties for planting throughout the length and breadth of Florida, and throughout the Gulf Coast country westward to the Rio Grande River. While adapted to this extreme range of latitude, we particularly recommend them for the extreme South.

FIGS

No fruit is more valuable in the southern fruit-garden than Figs. They can be closely planted—10 to 12 feet apart—and yield heavily. The Fig-canning industry is gradually extending throughout the South, and since several tons of fruit can be produced on an acre of ground, it is well adapted to intensive culture. The preserved product put up at the present time in no wise supplies the demand, and we look for a very material increase in the Fig-canning industry.

The fresh Fig is also finding its way into the markets, and meeting with a ready sale. Carefully picked at the right stage of maturity and packed in strawberry crates, they can be placed by express in distant markets, four or five hundred miles, or even more, in good condition.

Figs come into bearing very early, and for that reason commend themselves to the fruit-grower. With a proper selection of varieties, fruit may be secured from June to November. Figs often succeed best when planted so the roots may run beneath buildings. Orchard plantings should be made on heavy soils, clay soils, or on lands where the clay is very close to the surface.

Figs succeed best with little or no cultivation and such cultivation as is given should be very shallow because the roots are close to the surface. Mulching gives satisfactory results because it supplies needed vegetable material as it decays and keeps the roots cool and moist.

PRICES ON FIGS.

	Each	Per 10	100
2 to 3 ft.....	\$0 40	\$3 50	\$30 00
3 to 4 ft.....	55	5 00	45 00
4 to 5 ft.....	75	6 50	55 00

Brunswick. Fruit very large, broadly pear-shaped, with short, rather slender stalk; ribs well marked, eye large, open, with rosy scales; skin tough, dark brown in color; pulp thick, soft, quality very good. Satisfactory variety.

Brown Turkey. Size medium to large; broadly pear-shaped, with short, thick stalk; ribs few in number; color coppery brown; flesh white, or slightly amber-colored, shading to pink about the seeds; flesh solid, excellent quality. This variety ranks with Celeste in hardness. It is very hardy and desirable.

Celeste. Small to medium, pear-shaped, ribbed; violet-colored, sometimes shading to purplish brown, covered with bloom about half

way up from the neck; stem short, stout. Flesh whitish, shading to rose-color at center; flesh firm, juicy, sweet, excellent quality. One of the hardiest varieties of Figs, and can be grown far outside of the usual limits of culture; very desirable for canning and preserving.

Green Ischia. Fruit of medium size, long; pulp rosy red, soft, melting, quality rich, sweet. A variety of very high quality. The tree is a strong grower.

Lemon. Fruit medium to large, flattened, faintly ribbed, light yellowish green; stem short, stout; flesh white, sweet, rather soft, quality fair to good; season July. Very vigorous and prolific.



Celeste Figs



Le Conte Pears

PEARS

In recent years the Pear crop has been bringing splendid returns. There has been a steady upward trend in prices until, even with a short crop occasionally, it pays to grow Pears. At prices ranging from six to twelve dollars per barrel it does not take a heavy yield to pay good returns.

The most serious drawback in growing Pears is pear blight, but the oriental Pears such as Kieffer, Garber and Le Conte are not nearly so subject to it as the European Pears. With careful attention to pruning, fertilizing and cultivation, these Pears are quite free from blight. This group of oriental Pears is the very best for planting in the South. No cultivation should be given more than to cut down the grass and weeds around the trees. Dead or blighted branches should be cut well below the line between dead and living wood. These prunings should be burned.

PRICES ON PEARS.—On Japan Seedling Pear Stock.			
	Each	Per 10	100
2 to 3 feet.....	\$0 40	\$3 50	\$30 00
3 to 4 feet.....	55	5 00	45 00
4 to 6 feet.....	75	6 50	55 00
2 years (Chinese Sand, Kieffer and Le Conte only).....	1 00	9 00	

Chinese Sand. Fruit of medium size, roundish pyriform; yellow, slightly russet. A vigorous grower; free from blight; valuable for cooking.

Garber. Fruit resembles the Kieffer in size, appearance and quality, but the tree is more open in growth. Comes in ahead of the Kieffer. A seedling of the Chinese Sand Pear.

Japan Golden Russet. Fruit of good size, round; russet; flesh is tender, juicy and of fine flavor. A strong, vigorous grower; ripens later than the Sand Pear.

Kieffer. Fruit large to very large; yellow, with bright vermilion cheek, very handsome;

flesh very juicy, brittle, a little coarse but of good quality. September and October.

Le Conte. Fruit large to very large, pyriform; skin smooth, pale yellow; quality good when properly handled. Season, July.

Magnolia. Large to very large, slightly pyriform; glossy, reddish brown; flavor subacid. Later than Kieffer, and keeps well.

Smith (Smith's Hybrid). Uniformly large and perfect, smooth, and handsome; similar in form to the Le Conte, melting and juicy, with smooth, creamy texture; quality good when properly ripened. Ripens with or ahead of Le Conte.

GRAPES

Grapes of the Muscadine group are native to the South, and are well adapted to the soil and climate. When compared with the Bunch Grapes, the fruit-clusters are small, but the fruit is fine-flavored and valuable as a table Grape, for making unfermented grape-juice, preserves, jellies and wines. In Virginia and North Carolina they are extensively grown for wine-making.

Muscadine vines are long-lived, reaching a healthy, vigorous old age. They should be planted 15 to 25 feet apart each way. The usual plan is to allow them to run on an overhead trellis, 6½ to 7 feet from the ground. The posts should be heart-pine, cypress or cedar. The trellis may be made of wood and wire, or of wood alone.

The usual plan, heretofore, has been to allow the Muscadine Grapes to grow without pruning, but this is a mistake. It has been shown that, to secure the best results, the vines should be pruned. This is best done in October, immediately after the leaves have fallen. They may also be pruned in summer.

In the lower South, the northern Bunch Grapes, while not so thoroughly at home, can be grown to perfection for home use and for local market, when well cultivated, sprayed and cared for. The leading varieties are Delaware, Diamond, Ives, Moore's Early and Niagara.

The best trellis for the Bunch Grapes in the lower South is the Munson three-wire trellis. The vines should be planted 8 to 10 feet apart. For the first season or two a post placed at each vine will be sufficient. Later the cross-pieces and three wires can be added, and the vines allowed to run out over them. Prune each winter season. Cut away a goodly portion of last season's

Deciduous Fruits

growth, leaving four or five buds on each shoot. The best spray for the canes and fruit is bordeaux mixture. This should be applied several times each season, beginning soon after the growth starts in spring, with an application in winter, just after the pruning is done. It is an excellent plan to bag the bunches of fruit, using for this purpose two- or three-pound ordinary paper sacks.

PRICES ON GRAPES.—Muscadine and Bunch.

	Each	Per 10	100
1-year.....	\$0 40	\$3 50	\$30 00
2-year.....	55	5 00	45 00
3-year.....	75	6 50	55 00

Muscadine Grapes

Flowers. Bunches composed of fifteen to twenty large, purplish black berries; sweet, vinous, good quality. August and September.

James. Very valuable. The largest of the Muscadine group, berries often measuring $\frac{3}{4}$ to $1\frac{1}{4}$ inches in diameter; prolific; black, juicy, sweet. Has taken premiums wherever exhibited. Ripens from August until late in the fall.

Scuppernong. Muscadine type. Bunches composed of eight or ten very large berries, bronze-colored when fully ripe; flesh pulpy, sweet, with peculiar, agreeable, musky flavor; quality excellent. One of the oldest and best varieties of the Muscadine Grapes in cultivation. Ripens in August and September.

Thomas. Belongs to the Muscadine type, and one of the best of its class. Color reddish purple; pulp sweet, tender. Very largely planted. August and September.

Male Muscadine. Muscadine Grapes bear much larger crops if a pollen-bearing vine is planted near to furnish pollen.

Bunch Grapes

Concord. Bunches and berries very large, blue-black, with bloom; flesh sweet, pulpy, tender, good; vine vigorous. Heavy bearer; desirable for home markets. July.

Delaware. Bunches small to medium; berries small, skin red or pink, and very thin; sweet, juicy, vinous; quality best. Generally considered the finest American Grape.

Diamond. A handsome white Grape equal or superior to Niagara in quality, and ten days earlier. Prolific, very thrifty and vigorous, and one of the best for the South.

Ives. Strong grower; very productive; stands shipping well; bunches large; berries large, black, pulpy, sweet, of good quality. June.



Thomas Grapes

Moore's Early. Similar to Concord in size and shape, but better and earlier. Well adapted to the South.

Niagara. Bunch and berry large; greenish yellow; flesh sweet; quality good. A strong grower and produces good crops of fruit. One of the best for the South generally.

Salem (Rogers' No. 53). Bunch large, compact; berry very large, round, coppery red; flesh tender, juicy, quality best. July.

POMEGRANATES

The Pomegranates are very hardy shrubs, which can be grown throughout the Gulf states and the coastal sections of Georgia and the Carolinas. The brilliant scarlet flowers are produced in profusion, and an abundance of fruit usually follows. The fruit is used in making jellies, marmalades and acid drinks. For this latter purpose they are highly esteemed. The fruit has a fresh crispness, and a delicate, sprightly flavor found in few fruits. As a commercial fruit, the Pomegranate is steadily gaining in favor.

They are valuable as ornamentals. The new shoots and leaves in early spring vary in color from light green to delicate pink and maroon. The showy flowers follow in early summer, and the fruit makes the shrubs attractive in autumn. They are adapted for planting singly or in groups and when well cared for the Pomegranates make good deciduous shade.

PRICES ON POMEGRANATES.—On own roots.

	Each	Per 10	100
2 to 3 feet.....	\$0 40	\$3 50	\$30 00
3 to 5 feet.....	55	5 00	45 00
5 to 7 feet.....	75	6 50	55 00



Rhoda Pomegranates (½ natural size)

Purple - seeded. Large; rind thin; juice cells surrounding the seeds dark ruby or wine color; sprightly, vinous and of the best quality. A very choice variety and one of the best for general culture. It is being more largely planted every year.

Rhoda. Brought to our attention by one of our employees, who had been growing it for years. The fruit is of large size; rind thin but tough; juice-cells large and of beautiful wine-color; crisp, sweet and of exquisite flavor. A very good variety.

Sweet. This variety has large, sweet fruit and is one of the best of the sweet group; handsome.

Wonderful. A new, fine, late-ripening sort, with large, highly colored fruit and beautiful pulp. Handsome and desirable.

MULBERRIES

The Mulberry is well adapted generally to Southern conditions, and no fruit tree is more valuable on the farm. Its wide-spreading branches afford splendid shade throughout summer, and it is without question the best shade tree for poultry-yards and hog-pastures. The fruit is readily eaten by poultry and pigs, and as some varieties continue in fruit for several weeks, or even months, it is no mean source of food-supply. Besides this, it is valuable for tolling birds away from other fruits, and no bird-lover should omit this tree from his plantings. Some varieties, Stubbs in particular, are valuable for home use. The fruit of this variety is acid enough to give it decided tone and to make it of value as a kitchen fruit for the making of jellies, jams and similar products. Under existing conditions increased plantings of Mulberries are worth considering. Their rapid growth soon brings them to bearing size.

Deciduous Fruits

PRICES ON MULBERRIES.—On Mulberry Stock.

	Each	Per 10	100
1-year, 2 to 3 feet..	\$o 40	\$3 50	\$30 00
1-year, 3 to 4 feet..	55	5 00	45 00
1-year, 4 to 6 feet..	75	6 50	55 00
6 feet up	1 00	9 00	

Hicks. Fruit sweet; tree grows rapidly and bears young; productive; should be grown by every farmer who keeps swine or poultry, this variety being of special value for this purpose; continues in bearing four months of the year, which makes it an exceptionally valuable variety.

Stubbs. Large, black; acid; excellent; prolific. Fruit from 1½ to 2 inches long, superior to any other. Tree vigorous and handsome.

Townsend. A new variety, which, on account of its extreme earliness, we have deemed worthy of propagation. Berries of medium size and fair quality. Should be planted where birds are apt to ruin other early fruits.

Multicaulis (*Morus multicaulis*). The Silk-



Stubbs Mulberry

worm Tree. A very vigorous tree, extensively used for propagation, shade, and for silkworms.

White. A white-fruited form, vigorous and prolific. Should be generally planted.

APPLES

While the Gulf region is not recommended for extensive Apple orchards for commercial purposes, yet, on its upper edge some varieties may be grown. The most successful results are secured by planting on heavy clay soils, or soils underlaid with clay, or on soils with a goodly supply of moisture, and which at the same time are well drained. Under most conditions the planting should not extend beyond a few trees for the home orchard. Our list is made up of those varieties which experience has shown will succeed farthest south.

PRICES ON APPLES.

	Each	Per 10	100
1-year, 2 to 3 feet.....	\$o 40	\$3 50	\$30 00
1-year, 3 to 4 feet.....	55	5 00	45 00
1-year, 4 to 6 feet.....	75	6 50	55 00

Ben Davis. Medium to large, roundish, truncated, conical; yellowish, overspread and striped or splashed with shades of red; subacid, of fair quality; good keeper.

Early Harvest. Medium to large; yellow, juicy, tender, of fine flavor. A well-known and popular variety. Ripens in June.

Red Astrachan. Large; crimson, with heavy bloom; flesh crisp, acid and juicy. Ripens in

June. Tree vigorous, bearing very young and regularly. Adapted to a wide range of climate.

Red June. Medium conical; deep red; juicy; very productive. A beautiful and thrifty tree. One of the best for the lower South.

Winesap. A very fine winter Apple, with white, firm, crisp flesh; color red or striped red. Fruit medium size; quality excellent. A very satisfactory Apple for southern planting.

QUINCE

While the Quince does not succeed all over the whole lower South, yet it does well in many localities and should be planted. It naturally prefers a rather moist, loamy soil. We offer three of the best and most noteworthy varieties.

PRICES ON QUINCES.—On Quince Stock.

	Each	Per 10
2 to 3 feet.....	\$o 40	\$3 50
3 to 4 feet.....	55	5 00

Chinese. Fruit very large, oblong; makes excellent jelly. Tree a vigorous grower and adapted to the lower South.

Orange. Large; golden yellow, with firm,

tender flesh and excellent flavor. A strong grower and thrifty. One of the best for preserves.

Pineapple. One of Luther Burbank's introductions. Of large size, smooth and rounded.

Tropical and Subtropical Fruits



A Banana Planting

Very hardy and may be grown in north Florida and around the Gulf Coast generally.

BANANAS

The Banana is a rapid-growing plant of great value for its fruit and for decorative purposes. It requires rather moist ground and plenty of plant-food for best results. Both stable manure and commercial fertilizer may be used. Very often there is a low, moist place that may be planted in Bananas to advantage, or they may be set on the shores of lakes or the banks of streams.

PRICES ON BANANA PLANTS.		
	Each	Per 10
Medium suckers.....	\$0 50	\$4 50
Large suckers.....	75	6 50

Cavendish. A rather tender, dwarf variety, producing an excellent quality of fruit.

Hart (Hart's Choice, or Lady-Finger). A valuable hardy sort; fruit of fine quality.

Orinoco (Horse Banana). A strong-growing variety producing large plants; bunches small.

GUAVAS

The Red Cattley and Yellow Chinese may be grown in north Florida as well as in more tropical sections. Excellent for use as dessert fruits or for making preserves and jellies.

PRICES ON GUAVAS.		
	Each	Per 10
1 to 2 feet, 3-inch pots.....	\$0 50	\$4 50
2 to 3 feet, 4-inch pots.....	75	6 50

Jelly Guava. Size very large; flesh dark pink, acid; a heavy, regular bearer and a thrifty grower; fine for cooking and jelly-making. Grown from cuttings.

Red Cattley. A handsome evergreen shrub with glossy green leaves, producing large quantities of small red fruits, 1 to 1 1/4 inches in diameter. It grows in north Florida. Seedlings only.

Strawberry Guava. Size very large, slightly pear-shaped; flesh dark strawberry-color; flavor very fine; plant makes a strong, handsome growth. Grown from cuttings.

Sweet Guava. Size large, about equal to a medium lemon; skin, thin, yellow; flesh pink, slightly acid, of fine flavor; a strong grower and a regular, heavy bearer; very fine eating Guava. Grown from cuttings.

Yellow Chinese. Almost identical with the Red Cattley, except that the fruit is yellow instead of being red-fleshed. Grown from seed.



Guavas

SURINAM CHERRY (*Eugenia Michellii*)

A low-growing shrub, sometimes reaching a height of 15 to 20 feet, with bright green, glossy leaves. The fruit is cherry-like, ribbed, an inch or so in diameter, with a delightful spicy sub-acid taste. Excellent for making jellies and preserves. It makes an interesting pot-plant for conservatory or home, and is quite hardy when grown outdoors. It makes a very attractive and unique ornament to the home grounds, and is delightful all the year around. 1-year, fine plants, 50 cts. each, \$4.50 for 10. Adapted to South Florida and similar climates.



A Cherokee Rose Hedge

ROSES

"I have always believed that the happiness of mankind may be increased by encouraging that love of a garden, that love of the beautiful which is innate in us all," and in the development of the garden no plant is more worthy of a large place than the Rose. In what wonderful shades and colorings, in what exquisite variety of form and habit, with what delicate perfume is it now possible to have them. For length of blooming period they have few equals and no superiors among flowering shrubs,—the Rose stands in a class by itself,—The Queen of Flowers.

The growing of quality Rose bushes has been an important part of our nursery work for the past twenty-seven years, and, naturally, during this period of time we have learned something about Roses and how to grow them. It has never been our object to grow long lists of varieties. Rather it has been our conservative plan to offer our customers a short list of known and tried varieties. This does not mean that we are not constantly testing out new varieties, but we are not willing to experiment on our customers by offering them untried sorts. In consequence, our lists have varied but little from year to year, and when a new variety appears in our catalogue, it is an indication that it has been very thoroughly tested for several seasons previous. The old favorites remain, and as we number them among our old friends, they are not displaced; only new ones of known and proven merit are added. Thirteen varieties catalogued this year were listed in 1893.

Our Roses are grafted plants. It usually takes three years to produce them. Roses on their own roots, with few exceptions, are useless in the Lower South, and we do not grow them.

Varieties

Roses are divided into a number of groups, based upon their origin, or the species from which they came. Those best adapted to the Lower South belong to the Tea (T.) and Hybrid Tea (H.T.) groups. These Roses can be depended upon to give flowers almost continuously, or as long as they continue growing. They are the most important groups. The Bengal Roses, represented by such varieties as Louis Philippe and James Sprunt, and the Noisette Roses represented by Estelle Pradel, Lamarque, Marechal Niel, and Woodland Margaret, are also free-flowering groups. Hybrid Perpetuals (H.P.) can be depended upon as a rule for two bursts of bloom—one in early spring and another in late fall,



though careful and severe pruning is necessary to secure them. Frau Karl Druschki, that gorgeous white sort, belongs to this group, but is everblooming in its habit in the Lower South. As a rule, the Ramblers are failures, except the dwarf sorts. Of these, Baby Rambler blooms continuously throughout its growing period. The Cherokee Roses, of Japanese origin, are thoroughly at home. This group in our catalogue consists of four varieties, Anemone, Fortune's Yellow, Ramona, and White Cherokee.

Soils and Preparation

Soils in the South are variable, perhaps in some cases more so than elsewhere. Hence it is hard to lay down general rules. Locations under the shade of trees or where the ground is filled with tree roots should be avoided. Wet soils should be drained, although the Rose delights in a moist soil. On clay lands, little preparation is needed, except to enrich them and make them more friable and easily managed by adding stable manure. Sandy soils should be improved by adding clay wherever possible, and with it leaf-mold and manure. Closely planted beds may be prepared by digging out 15 inches deep, and then filling in 6 inches of good clay and finishing with 9 inches of good soil, mold and manure mixed. It is best to make the beds up two or three weeks before planting. Cherokee stock overcomes many of these drawbacks, and Roses budded on this stock may be successfully grown on the lighter soils with less expensive preparation. We recommend Roses on this stock for light soils and for those soil conditions where it is difficult to bring Roses to perfection. In making up the beds and in planting there is no better fertilizer to use than raw ground bone. Use it liberally, mixed with the soil—two pounds per bush is not too much.

Planting

"The finest effects are secured by planting a dozen Roses of one kind, for instance, rather than by planting an equal number made up of several different varieties."

The planting season in the South is from December 1, or as soon as the plants are dormant, through the winter and spring months to about April 15. When the plants are received, it is well to set them in buckets of water overnight, if they have been delayed in transit, or bury them completely for a day or two in moist soil. They are already pruned for planting, but any broken roots should be trimmed off. Our grafted plants should be set with the graft union 3 or 4 inches below the surface.

Roses

Space them 2½ to 3 feet apart. Spread the roots out carefully, fill in with good soil mixed with bonemeal, pack the earth tight about the roots, leave a basin, and water well.

Fertilizing and Care

Thorough preparation of the soil before planting will take care of the fertilizing problem for some time. But as Roses are gross feeders, it is necessary to keep them supplied with an abundance of plant food. Stable manure may be used, liberally scattered on the surface as a mulch, and good, well-balanced commercial fertilizer may also be used from time to time. A mulch of 3 to 4 inches of leaves or partly rotted leaves and leaf-mold is excellent, particularly during the summer months. During dry weather, water freely.

Tea Roses do not require very severe pruning. Prune in September and October for fall and winter bloom; in late February and March for the spring crop of flowers. Thin out small and poorly developed wood. Cut Hybrid Perpetuals severely leaving only 3 or 4 inches of the old canes. Climbers should be pruned sparingly.

Shoots sometimes come up from the stock below the graft union and take the food-supply to such an extent that they destroy the Rose top. The leaves on these shoots generally have seven leaflets and are quite different in appearance. They should be removed by digging down to the point of union with the stem and cutting them off smooth and clean.

Pests

The pests which cause most trouble in Rose-growing are aphids and thrips, black-spot and powdery mildew. Sooner or later some one of these is likely to appear, and the rose-grower should be prepared to take care of them.

Aphid or green plant-lice attack the new growth, whether of bud or shoot. They are sucking insects. Thrips are usually noticed in the flowers, though they also work on the new growth. They are the cause of flowers failing to open, turning brown and withering up. Some varieties are much worse affected by thrips than others. Aphids may be removed by syringing thoroughly with water from the hose. Both of these pests can be well handled by spraying with a mixture of one pound of laundry soap and one ounce of Black-Leaf 40, or other tobacco extract, to 8 gallons of water. Dissolve the soap in the water by boiling, add the Black-Leaf 40, and spray thoroughly. In treating the plants for thrips, prune off all open and partly open flowers early in the morning before spraying; handle the prunings carefully and place them in a bucket of water with a quarter inch of kerosene floating on the surface. Repeat this treatment in four or five days if the thrips appear again. They may come in from other vegetation or the eggs on the Roses may not be destroyed.

Black-spot appears as rather irregular dark areas on the leaves. These turn yellow and drop off. Powdery mildew is a white powdery growth which appears on the young leaves and shoots. If it can be had, the best spray is potassium sulphide, 1 ounce to 2 gallons of water. If this is not to be had, use bordeaux mixture or one of the prepared bordeaux compounds. Spray at intervals of a week or ten days until the disease is checked. Both these troubles are much worse in damp or wet weather. Many varieties are not affected at all.

Roses on Cherokee Stocks

There has been a general demand for Roses that can be successfully grown on the poorer types of soils. For a number of years we experimented with different stocks and finally came to the conclusion that Cherokee Rose stock of a certain type was the best to use. For several seasons we have offered these to our customers, and the bushes have been an unqualified success. Roses on this stock are difficult to propagate, and we grow only a limited number of the list which follows. Other sorts cannot be supplied.

Duchesse de Brabant
Etoile de Lyon
Freiherr von Marschall
Isabella Sprunt

Marie van Houtte
Marechal Niel
Pink Maman Cochet
Papa Gontier

White Killarney

Pink Killarney
Radiance
Safrano
White Maman Cochet

	Each	10	100
Prices on Grafted Roses, except Radiance, Red Radiance, and Marechal Niel.....	\$0 75	\$7 00	\$60 00
Prices on Radiance, Red Radiance, and Marechal Niel.....	1 00	9 00	80 00
Prices on Roses grafted on Cherokee stocks.....	1 50	12 50	
Prices on Balled Roses.....	2 50		

Southern Planting Facts

*Glen Saint Mary
Nurseries*

Roses

Yellow and Salmon Roses

Chromatella. *N., Climber.*

This beautiful Rose is lemon-yellow in color, with long, pointed buds. It flowers in great profusion and holds its foliage well.

Climbing Perle des Jardins. *T., Climber.*

There is no more satisfactory climbing Rose than this. In our opinion it is a better Rose than Marechal Niel, which it closely resembles. The new foliage is a beautiful wine-color. Free blooming.

Etoile de Lyon. *T., Bush.*

A lovely Rose with well-formed buds and large, double yellow flowers. It is particularly fine in early spring and late fall. Has no superior in its class.

Fortune's Yellow. *Cherokee, Climber.*

Believed to be a cross between Cherokee and Banksia. It blooms in April in north Florida, producing a gorgeous mass of bloom over a period of about three weeks—a sight once seen, never to be forgotten. The color is variable, a rich blending of yellow, orange, and pink.

Isabella Sprunt. *T., Bush.*

A strong-growing Rose with dark green foliage and well-formed, light yellow buds that make one think of Safrano, except in color. It has much to recommend it.

Mme. Francisca Kruger. *T., Bush.*

A very free bloomer; copper-yellow, shaded pink on the outer petals. A fine Rose for the early spring or late fall crop of flowers.

Marechal Niel. *N., Climber.*

Perhaps the most famous and most widely known Rose grown in the South. The flowers are a wonderful shade of clear deep yellow. It needs no further description. Its only rival is Climbing Perle des Jardins.

Reve d'Or. *T., Climber.*

Produces flowers which closely resemble those of Safrano, but with greater substance when open. It holds its foliage well and is one of the best climbing Roses.

Safrano. *T., Bush.*

This is a strong-growing Rose producing salmon-colored buds of exquisite shape and semi-double flowers. It is a profuse bloomer. A very old Rose, but always a favorite.

Solfaterre. *T., Climber.*

The flowers of Solfatare are a clear sulphur-yellow, large, double, and well-formed. The foliage is very fine. It is a free bloomer and may be pruned to bush form.

White Roses

Climbing Clotilde Soupert. *T., Climber.*

A free-flowering Rose, producing its blooms in clusters of three to eight. The flowers are pink-tinted in the center. A strong-growing variety.

Devoniensis. *T., Climber.*

Sometimes called the "Magnolia Rose" because of the large size and substance of its blooms. It is perhaps the strongest-growing Tea Rose in our collection. The flowers are white, delicately shaded pink. It is a favorite with all who know it.

Estelle Pradel. *N., Climber.*

Produces its pure white flowers in great profusion. The blooms are of medium size. A very satisfactory Rose.



White Maman Cochet

Frau Karl Druschki. *H.P., Bush.*

Peculiar in its class; is an everblooming Rose in the South. The buds are fine and large, usually pure white, but sometimes with a slight shading of pink on the outer petals. The open flowers are of great size and the cluster of deep yellow stamens adds a touch of color at the center. A very strong-growing Rose.

Kaiserin Augusta Victoria. *T., Bush.*

A free and regular bloomer from early spring to late fall. The flowers are pure white, of great substance, and are produced on long stems.

Lamarque. *N., Climber.*

A free blooming white Rose with a tint of pale yellow. The foliage is dense, and altogether it is one of the best white climbing Roses.

Marie Lambert. *T., Bush.*

One of the best Roses for early spring flowers. The buds are beautifully formed and sweet scented, while the flowers are pure white and of medium size. It is a strong grower with good, dark green foliage.

Marie Van Houtte. *T., Bush.*

One of the very strong-growing Roses in our list. The general color of the Rose is white, but it is tinted in the center with pale lemon and on the outer petals with delicate pink. It is a wonderful Rose.

White Cherokee. *Cherokee, Climber.*

A rampant climbing Rose, and when in flower in early spring it is an object of beauty and delight. The leaves are evergreen, bright, and thorny. A half-mile of fence covered with this Rose in full bloom is a sight to be remembered.

White Killarney. *H.T., Bush.*

Produces fine, long-pointed buds; the open flowers are semi-double. Best on Cherokee stock. It is a sport from Pink Killarney.

White Maman Cochet. *T., Bush.*

A sport from the pink variety of the same name. It is one of the finest in its class. The buds are long, often pointed, and of great substance, pink tinted on the outer petals, borne on long stems. It is one of the best varieties for cut-flowers. A strong grower with splendid foliage.

Pink Roses

Anemone (Pink Cherokee). *Cherokee, Climber.*

Produces its large dainty pink blossoms throughout a period of three or four weeks. Very beautiful. Not so strong a grower as the White Cherokee and for that reason better suited to the Rose-garden.



Southern Planting Facts

*Glen Saint Mary
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Roses

Anna de Diesbach. *H.P., Bush.*

Large-flowered; beautiful shade of shell-pink. The buds are very fine and are produced on long stems. Looks somewhat like Paul Neyron.

Baby Rambler. *Poly., Bush.*

A dwarf variety producing continuously throughout its growing season clusters of small pink Roses. Fine for edging Rose-beds. The color is a beautiful shade of pink.

Climbing Bridesmaid. *T., Climber.*

Produces flowers of a delicate shade of light pink which varies somewhat. They are large and fine, particularly during cooler weather.

Duchesse de Brabant. *T., Bush.*

An old-time favorite with globular buds and flowers in a beautiful shade of clear light pink. It is a good grower, dense, bushy and in the South very free-flowering.



Mme. Lambard



Duchesse de Brabant

Mme. Jules Grolez. *T., Bush.*

Rather dwarf in growth, producing satiny pink buds and flowers of fine shape and clear coloring. The color and style of this Rose are unusual, and flowers are produced with great freedom.

Mme. Lambard. *T., Bush.*

The strongest-growing pink Rose in our collection. The shade of coloring varies from clear light pink to a deeper tint, darker on the outside of the petals than on the inside.

Minnie Francis. *T., Bush.*

Has flowers of unusual style—rather open. The buds are long and pointed. Color dark pink, in different shades. A strong grower.

Paul Neyron. *H.P., Bush.*

The largest-flowering Rose of its color in our list. It is a beautiful shade of dark rose-pink. The flowers are produced on long stems. It is often mistaken for American Beauty.

Pink Killarney. *H.T., Bush.*

A free-flowering bush of upright habit. The long-pointed, bright pink buds and large, semi-double flowers of exquisite shading are characteristic of Killarney. The flowers always attract attention for their size and great beauty.



Red and Pink Radiance

Pink Maman Cochet. T., Bush.

Commonly known as Maman Cochet, but we have added the word "pink" to separate it from the white form. It has beautiful pointed buds of great substance, borne on long stems. In color it is a wonderful shade of pink. One of the best for cut-flowers.

Radiance. T., Bush.

The finest pink Rose we know. No description which we could give would do it justice. The buds are rather rounded, the flower cup-shaped, a beautiful shade of soft carmine-pink, deeper on the outside than on the inside of the petals. Flowers very large, sweet Rose-scented, on long stems. As a cut-flower it has no superior. A strong-growing variety.

Red Roses

Freiherr von Marschall. T., Bush.

A strong-growing Rose with good, dark green foliage—wine-colored when young. The flowers are dark carmine-red. The buds are long and well formed. It is a free-flowering sort, the bushes being generally covered with masses of red flowers.

General Jacqueminot. H.P., Bush.

Produces large, brilliant red, sweet-scented flowers on long stems. It is an old variety, but always popular.

Louis Philippe. Ben., Bush.

Sometimes called the "Florida Rose." It is a strong, healthy grower and produces a wealth of dark red flowers. As a hedge Rose, or for growing in a border of shrubs, it has no superior and it is also unsurpassed as a garden Rose.

Marshall P. Wilder. H.P., Bush.

Free-flowering, producing an abundance of cherry-carmine flowers in early spring and late fall.

Papa Gontier. T., Bush.

The buds of this Rose are a deep carmine, but as the flowers open they are shaded with rose. It is one of the freest blooming Roses—the first to appear in spring and the last in autumn. There is no more popular Rose than this.

Ramona. Cherokee, Climber.

Red Cherokee is a Rose resembling Anemone, but with darker red flowers. Some of the blooms of this variety are a deep, rich cherry-carmine, while others on the same plant may be a beautiful shade of pink. On older plants the colorings are darker. This is a very fine variety.

Red Radiance. T., Bush.

Stands among red Roses without a superior. It has flowers of the same exquisite form, the same sweet perfume as Radiance, but the color is a deep, rich red which does not readily fade. The stems are long, making it very valuable for cut-flowers.

Reine Marie Henriette. H.T., Climber.

Holds its place as the finest red climber that we know. The buds are cherry-red, large, and pointed, and the large, open flowers are no less beautiful. A fine growing sort.

Virginia R. Cox. T., Bush.

The reddest of the red Roses—bright, dark and rich. It blooms in wonderful profusion throughout the season, and is a good grower. It is very sweet-scented. The seed-pods (hips) should be cut off after the petals drop.



Group of Trees Balled and Burlaped for Shipping from Glen Saint Mary Nurseries

Trees and Shrubs Shipped with Balls of Earth

The method which we have perfected for handling open-ground-grown shrubs and trees of various kinds with their roots still undisturbed and surrounded by the earth in which they grew has given the best of results. Our customers are more than pleased. Hitherto it has been possible to accomplish this only when the plants were grown in heavy, compact clay soil. Our success in this new departure is one of the most important advances in the handling of trees and shrubs in years. We are now able to make shipment of trees without pruning them back, of ornamentals and roses with the flowers still on them, and ready to burst into bloom, to be transferred to your garden or grounds in their original shape and beauty. The effect is immediate, you do not have to wait for the plants to develop new heads, and repair the loss of top and branches,—in brief, we can now supply you with ready-grown shrubs and trees for a ready-made garden.

The following list of plants, which we are now able to furnish with balls of earth, is a large and comprehensive one. On special orders there are some others which we can furnish from the general lists in our catalogue.

Citrus Trees:

Oranges, Grapefruit and Kumquats.

Other Fruit Trees:

Peaches, Persimmons, Loquats, Pomegranates.

Broad-leaved Evergreens:

Gordonia, American Holly, Dahoon Holly, Magnolia grandiflora, Tea Plant, Abelia, Pink Oleander.

Shade Trees:

Scarlet Maple, Laurel Oak.

Flowering Trees:

Dogwood, Red-Bud, Crape Myrtle, Flowering Willow.

Flowering Shrubs:

Hydrangea, Spireas.

Bamboos:

All varieties listed on page 66.

Conifers:

Red Cedar, Cedrus Deodara, Arborvitæ of all varieties.

Palms:

Washingtonia robusta, Phoenix canariensis, Sabal Palmetto.

Roses:

All varieties listed in the Rose section of this catalogue.

Shipping Weights

Our plans provide for the handling of plants in grades approximately 2 to 3 feet, 3 to 4 feet, 4 to 5 feet, and 5 to 7 feet. In some sorts larger specimens can be furnished. The larger the tree, the larger the ball of earth about its roots, and the greater the weight.

It is difficult to give exact shipping weights. Much depends upon the amount of moisture in the soil and other details over which we have no control. Trees in 2- to 3-foot grade, shrubs (Spireas, for instance) and Roses will weigh, approximately, 75 pounds each; 3- to 4-foot trees about 100 pounds each; 4- to 5-foot trees will weigh 150 to 175 pounds each; 3- to 4-foot Arborvitæ and 5- to 7-foot trees will weigh 200 to 250 pounds each, and special grades will run 300 to 350 pounds each.

Planting and Care

The plants **must not be handled** by picking them up by the branches, stems or trunk. Lift and move by claspings the ball of earth with the hands, or by placing planks under it. Remove from the packing-case or box by taking it apart. Do not remove the burlap about the ball of earth.

Leave it on. Dig the hole for the plant 4 or 5 inches deeper and 8 to 10 inches broader than will be required to accommodate the ball of earth. Fill in the bottom of the hole with enough good, rich earth, in which a handful or two of commercial fertilizer has been mixed, to bring the top of the burlap up to the level of the surrounding earth when the plant is placed in the hole. Then fill in, with the same soil, the space between the ball of earth and the well of the hole, **packing it tight**. Make a basin of earth on top around the plant and fill with water, and give additional water from time to time for two or three months unless rains are frequent. Under unfavorable weather conditions it is sometimes advisable to shade the plants with burlap, but usually it is not necessary.

The leaves of Palms should remain tied together for two or three months, to prevent their being blown about, thereby loosening the plant in the ground. The strings may be loosened from time to time to accommodate the growth of leaves.

Prices

The prices on Palms are given on pages 63, 64 and 65. The price on specimen balled Roses is \$2.50 each. On the remainder of the list given above the price is four times the single rate for the grade ordered. Larger specimens quoted on request.



Specimen Magnolias of large size, balled for shipment



Creeping Juniper



View in Arborvitæ Nursery



Cedrus Deodara

ARBORVITÆS AND OTHER CONIFERS

These plants make beautiful individual lawn specimens. The different colors—yellow, green, dark green and blue-green—give a striking effect when planted in masses, either when groups are made up of a single kind or of a number of different kinds. They make an excellent background for other shrubs. For hedges they are unsurpassed. In planting for a hedge, they should be given more distance than other hedge plants; 4 or 5 feet apart is not too much. As plants for porches or porch steps, they are very satisfactory. They are hardy and long-lived.

ARBORVITÆ (Thuja and Biota). Beautiful evergreen shrubs of compact, symmetrical growth; especially suited for formal plantings. The varieties we list are adapted to southern climatic and soil conditions.

Prices on Arborvitæ, Retinospora, Cephalotaxus and Juniperus.		
	Each	Per 10
12 to 18 inches.....	\$1 50	\$12 50
18 to 24 inches.....	2 00	17 50
24 to 30 inches.....	2 50	22 50
2½ to 3 feet.....	3 00	25 00
3 to 3½ feet.....	3 50	30 00
3½ to 4 feet.....	4 50	40 00
4 to 5 feet.....	6 00	50 00

aurea conspicua. Foliage deep yellow to golden color, often varying to green. Very compact and symmetrical. Tall and upright. 5 to 7 feet, \$10.

aurea nana. Compact, rounded head and handsome, greenish golden foliage.

Blue-Green. A handsome Biota with bluish green foliage that does not change color in winter. Very desirable. First four sizes only.

compacta. A fine, dark green variety of compact, conical growth.

pyramidalis. A compact, pyramidal Biota, reaching a height of about 15 feet. Bright green, and holds its color well. Very fine.

Rosedale. Of compact, rounded, symmetrical form, with very dense head. The foliage is dark, bluish green and very handsome.

Stricta. A very narrow upright variety with dark green foliage. A very excellent sort where a narrow plant is desired.

RETINOSPORA pisifera argentea. A dwarf, compact variety. Branches silver-tipped.

Retinospora pisifera aurea. A showy evergreen of dense growth; new shoots of a rich golden color. Very ornamental.

pisifera plumosa. With plummy dark green foliage; reaches a height of about 15 feet.

CEDRUS Deodara (Indian Cedar). A cone-bearing tree introduced from the Himalayan Mountains. Of pyramidal form, reaching immense proportions. Foliage a beautiful shade of bluish green. Each 5 to 7 feet.....\$12 50

CEPHALOTAXUS pedunculata (Japanese Yew). A medium-sized tree, bushy, compact, dark glossy green. Leaves 1 to 2 inches long.

JUNIPERUS communis. A fine variety; spreading branches and green foliage. Each Per 10
12 to 18 inches.....\$1 50 \$12 50
18 to 24 inches.....2 00 17 50

oblonga. Dark green, upright in form, with slender, recurving branches. Can be pruned in any desired shape.

Sabina cupressifolia (Creeping Juniper). A Juniper of trailing or creeping habit; bluish green; very handsome. Excellent for bordering walks and for cemeteries.

	Each	Per 10
1-year.....	\$0 75	\$6 50
2-year.....	1 00	9 00

virginiana (Red Cedar). A dark green tree, with conical head and upright spreading branches. Grows rapidly; adapted to sunny exposures and succeeds on different soils.

	Each	Per 10
2 to 3 feet.....	\$2 00	\$15 00
3 to 4 feet.....	3 00	25 00



Abelia grandiflora



Privet Hedge



White Crape Myrtle

SHRUBS AND HEDGE PLANTS

Nothing adds so much to the beauty of the home surroundings, nothing gives so much pleasure, as a good lawn and well-placed shrubs and vines. The number which may be planted will be governed by the shape and extent of the grounds; but even the smallest lot has a place for a few. They should be planted in masses, in corners and about the buildings, always leaving a goodly proportion of open lawn. Aside from their value in beautifying the grounds, they actually increase the money-value of a property. A city lot, for instance, with well-grown shade trees and shrubs, is decidedly more valuable than a piece of bare ground.

For Shrubs shipped with balls of earth, see pages 48 and 49

ABELIA grandiflora. The new hedge plant, the most satisfactory addition to the list of hedge plants in years. Can be pruned flat or rounded on top. May be planted singly or in groups, and will add a touch of beauty to the lawn all the year round. A beautiful evergreen shrub, with dark green, glossy leaves, becoming bronze-colored in winter. Flowers white, funnel-shaped, tinged with pink, delicately sweet-scented, borne in clusters from early spring until late autumn.

	Each	Per 10	100
1-year plants.....	\$0 45	\$4 00	\$35 00
2-year plants.....	60	5 00	45 00
3-year plants.....	1 00	9 00	



Abelia grandiflora

Southern Planting Facts

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Shrubs and Hedge Plants

ACALYPHA. The Acalyphas are medium-sized shrubs of compact growth, with very showy foliage. Everything considered, they are among the most satisfactory foliage shrubs for outdoor planting in south Florida, or for indoor pot culture in the North.

	Each	Per 10
4-inch pots.....	\$0 50	\$4 50

marginata. A large shrub, reaching a height of 6 to 8 feet; leaves green, margined with different shades of pink, red and yellow.



Buddleia variabilis magnifica (see page 53)

Acalypha musaica. A smaller shrub of very compact habit; leaves beautifully marked in shades of red, green, bronze and yellow.

ALLAMANDA nerifolia. A dense evergreen shrub reaching a height of 6 to 8 feet, with yellow flowers. A fine shrub for southern Florida and similar climates.

	Each	Per 10
4-inch pots.....	\$0 50	\$4 50

ALTHEA (*Hibiscus syriacus*; Rose of Sharon). This is one of our most desirable flowering shrubs. The top is rather upright and spreading. Easily grown and produces blooms during a long period in summer.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	60	5 00
4 to 6 feet.....	75	6 50

carnea plena. Double; white, with red throat; a free bloomer.

rubra. Double; red; large; free-flowering and a very handsome shrub when in full bloom. Makes a fine hedge, and the two colors may be mixed with excellent effect.

ANDROMEDA nitida. A native evergreen shrub, with large, oblong, bright shiny leaves. Sweet-scented flowers, pinkish white, produced in early spring in the axils of the leaves. Grows from 2 to 6 feet high and is recommended for planting in shady places.

	Each	Per 10
Strong plants.....	\$1 00	\$9 00

AUCUBA japonica. A stout evergreen shrub with large, bright green leaves, well adapted to shady or half-shady locations.

A. japonica variegata (Gold Dust Tree). Similar to the above but with yellow spotted leaves; very handsome.

	Each	Per 10
3-inch pots.....	\$0 50	\$4 50

AZALEA. The Azaleas are very beautiful shrubs, producing an abundance of flowers in early spring. They are adapted to conditions from middle Florida northward, and give excellent satisfaction when planted under the proper conditions. The soil should be composed of leaf mold, muck, peat and sand, and the plants should be mulched from time to time with rotted leaves. For best results they should be planted in shady or half shady locations. The drainage should be good and water should be furnished abundantly.

austrina (Florida Flame Azalea). A gorgeous native deciduous shrub producing beautiful large clusters of flowers in different shades of reddish orange and yellow. In north Florida it blooms during April. The shrub in general appearance and habit of growth is similar to *Azalea nudiflora*.



Azalea nudiflora

***Azalea nudiflora*.** This native deciduous shrub is well adapted to conditions in the South. The flowers vary from deep pink to nearly white, and are sweet-scented and produced abundantly during early spring. We have a very fine stock of these.

Prices on <i>A. austrina</i> and <i>A. nudiflora</i> .	Each	Per 10
Small clumps, 2 to 3 feet...	\$1 50	\$12 50
Medium clumps, 3 to 4 feet.	2 50	20 00
Strong clumps, 4 to 6 feet..	3 50	30 00

Azalea austrina in small clumps only.

BOTTLE BRUSH. A beautiful evergreen shrub reaching a height of about 15 feet. Leaves narrow, dark green; flowers bright red in cylindrical brush-like spikes, opening in April and continuing in bloom several weeks. Hardy in north Florida and southward.

	Each	Per 10
5-inch pots.....	\$1 50	\$12 50
6-inch pots.....	2 00	17 50

BUDDLEIA. These shrubs are amongst the most important recent introductions and have created a great deal of interest. The flowers are produced in terminal racemes and somewhat resemble lilacs in general appearance. During the summer they remain constantly in bloom and attract butterflies in great numbers. A well-grown bed of Buddleias with butterflies of many different colors flitting over them is a unique and pleasing sight. They make

Buddleia, continued

excellent cut-flowers. In south Florida they may be planted in autumn for winter flowering, but in other sections they should be set in late March.

	Each	Per 10
3-inch pots.....	\$0 50	\$4 50
4-inch pots.....	75	6 50
Field - grown (<i>Lindleyana</i> and <i>officinalis</i> only).....	1 00	9 00

***Lindleyana*.** An evergreen shrub 3 to 6 feet high, with small bright green leaves and spikes of purplish violet flowers. Splendid for mass plantings.

***officinalis*.** A strong-growing shrub with delicate lilac-pink flowers in terminal racemes. Blooms during winter. Very fine.

***variabilis magnifica* (Butterfly Bush).** Flowers deep violet in racemes 6 to 10 inches long; much branched; leaves dark green, pointed. Very fine.

CARYOPTERIS Mastacanthus (Blue Spiræa).

A very free-flowering shrub, flowering in summer and early fall. Flowers blue, in spikes. Very effective.

	Each	Per 10
4-inch pots.....	\$0 50	\$4 50

***CESTRUM elegans*.** A tall, slender, evergreen shrub with medium-sized, ovate, green leaves and red-purple flowers. Where not affected by frost it blooms almost continuously.

Southern Planting Facts

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Shrubs and Hedge Plants

Cestrum nocturnum. A shrub 6 to 9 feet high, adapted to south Florida; branches willowy, curved, producing an abundance of creamy yellow flowers, very fragrant at night.

	Each	Per 10
4-inch pots, 18 to 24 inches.	\$0 75	\$6 50

CRAPE MYRTLE (*Lagerstræmia indica*). Vigorous deciduous shrubs or small trees, reaching a height of 15 to 20 feet. The leaves are small, bright green and glossy. The flowers, which appear in spring, are fringed and colored in different shades of white, purple, and scarlet. The trees, when in blossom, are covered with large panicles of bloom and remain in flower for several weeks. They are very beautiful, and make a noticeable object in any landscape. The trees are hardy, easily grown, and succeed on a wide range of soils. No other tree or shrub takes their place, and they are among the most satisfactory of the flowering shrubs for southern planting. (See page 56.)

	Each	Per 10
2 to 3 feet.	\$0 50	\$4 50
3 to 5 feet.	75	6 50
5 to 7 feet.	1 50	12 50
Special.	2 50	22 50

Purple. A grand sort, producing immense clusters of flowers of rich purple.

Rose. A very free-flowering Crape Myrtle, old-rose in color. A valuable addition to our list.

Scarlet. Of handsome growth; a bright, showy plant with large bunches of scarlet flowers.

White. A pure white form with large clusters of flowers; very free blooming and a showy shrub in any landscape.

CUPHEA hyssopifolia. Shrubby, with pale lilac flowers and slender stems with small leaves. This bedding plant is well adapted for the edge of larger plantings or for carpet bedding. Easily grown and succeeds under trying conditions.

	Each	Per 10
4-inch pots.	\$0 50	\$4 50

DURANTA plumieri (Golden Dewdrop). An evergreen shrub with dark green leaves; flowers in racemes, lilac in color, followed by yellow berries. Very desirable.

	Each	Per 10
4-inch pots.	\$0 50	\$4 50

ELÆAGNUS pungens. A spreading evergreen shrub reaching a height of 6 feet; leaves dark green above, silvery beneath. Delights in a bright, sunny location and is adapted to a wide range of conditions.

pungens Simoni. A variety of Pungens with larger foliage; equally desirable.

	Each	Per 10
1 to 2 feet.	\$0 50	\$4 50

HIBISCUS mutabilis (Confederate Rose). A tall-growing, shrubby Hibiscus, with large, angled and toothed leaves. Flowers very double when first opened, white or light pink, changing to deep red. Very desirable.

Hibiscus Rosa-sinensis. Showy evergreen shrubs, with glossy leaves and large, brightly-colored flowers 4 to 5 inches across. They are amongst the most gorgeous and satisfactory shrubs that may be grown outdoors in south Florida, or under glass in the North. Under suitable conditions they bloom almost continuously, and the large bright flowers are very striking. One of our best ornamental shrubs.

All varieties.	Each	Per 10
4-inch pots.	\$0 50	\$4 50
8-inch pots.	1 25	10 00

Double Pink. Flowers very large, rich pink in color. One of the handsomest.

Double Scarlet. A very double form. Not so strong a grower as the single varieties but a very free bloomer.

Giganteus. Single flowers of immense size, vivid crimson-scarlet in color.

Grandiflora. Flowers single, very large, beautiful shade of pink. Very fine.

Peach Blow. Flowers double, light pink with dark centers. A very beautiful variety.

Shell-Pink. A new variety, with beautiful single shell-pink flowers of medium size.

Single Pink. A single-flowered form with large flowers.

Single Salmon. A good shade of salmon-yellow with red center.

Single Scarlet. Similar to the single pink but a deep, dazzling scarlet in color.

Versicolor. Flowers single, scarlet, shaded light yellow, with deep red center.

HYDRANGEA. A very ornamental group of shrubs, with showy flowers, produced in large bunches. They are excellent for planting in masses, and are very satisfactory for southern planting.

	Each	Per 10
Field-grown, small.	\$0 50	\$4 00
Field-grown, medium.	75	6 50
Field-grown, large.	1 25	11 50

Avalanche. Fine, large, white variety. Well-grown specimens are very beautiful and are fine for lawn planting.

E. G. Hill. Described by introducers as pink, but the flowers with us are baby-blue. The trusses are of immense size; a fine grower and very satisfactory.

Hydrangea, Mme. E. Mouillere. Pure white; very free flowering; one of the finest sorts.

Mousseline. Strong, upright-growing variety, producing immense clusters of blue flowers with cream-colored center.

Otaksa. Flowers deep blue, produced in large heads; very handsome; a strong, thrifty grower; very fine.

rosea. A strong, vigorous grower, resembling Otaksa in habit. Flowers bright, rosy pink. A beautiful variety.

Thomas Hogg. A handsome dwarf variety, growing in dense, compact form with large, bright green leaves. Produces large, rounded clusters of handsome white flowers.

HYPERICUM Moserianum. A dwarf, compact shrub about 2 feet high, nearly evergreen, producing an abundance of large, bright yellow flowers throughout the summer. Fine for mass plantings. Hardy.

patulum Henryi. A spreading evergreen shrub about 2½ feet high, with arching branches, bright green leaves and large, bright yellow flowers.

Prices on both varieties.	Each	Per 10
1-year.....	\$0 50	\$4 50
2-year.....	75	6 50

ILEX glabra (Inkberry). Much-branched native evergreen shrub, with bright shiny green, roundish leaves; fruit black. Well adapted for growing in clumps. Will succeed under very adverse conditions. Splendid for massing in shady locations. Height 3 to 4 feet.

	Each	Per 10
Small, branched.....	\$0 50	\$4 50
Large, branched.....	75	6 50

JASMINUM sambac. A climbing shrub with dark green shining leaves and very fragrant large, white flowers. Two varieties, Grand Duke, with double flowers, and Maid of Orleans, with semi-double or single flowers.

	Each	Per 10
4-inch pots.....	\$0 50	\$4 50

primulinum. A rambling evergreen shrub with arching branches and dark green leaves producing a profusion of bright yellow flowers in early spring.

	Each	Per 10
1-year.....	\$0 50	\$4 50
2-year.....	75	6 50

LANTANAS. Beautiful, showy, easily grown shrubs which may be grown in almost any soil, very free-flowering. Can be furnished in white, yellow, orange, lilac, and red. The weeping Lantana, with deep lilac flowers, makes a fine ground-cover and is excellent for window-boxes.

	Each	Per 10
Field- or pot-grown.....	\$0 50	\$4 50

LEUCOTHOE axillaris. Beautiful native evergreen shrub with spreading recurved branches and glossy dark green leaves, producing in spring numerous small white flowers in racemes. Splendid for massing in shady locations. Usually reaches a height of 2 to 3 feet.

	Each	Per 10
Fine plants.....	\$0 75	\$6 50

MALVAVISCUS arboreus. A tall evergreen shrub with large, three-lobed leaves and erect, bright red flowers. Easily grown and very satisfactory.

grandiflora. A handsome free-flowering shrub, resembling a hibiscus in growth, but with drooping bright scarlet flowers. A fine addition to our list.

	Each	Per 10
4-inch pots.....	\$0 50	\$4 00
6-inch pots.....	75	6 50

MOCK ORANGE (Philadelphus). A group of deciduous shrubs, with snowy white flowers in early spring.

	Each	Per 10
1 to 2 feet.....	\$0 40	\$3 50
2 to 3 feet.....	50	4 50

coronarius. A shrub about 10 feet high, with upright branches. Flowers creamy white, produced in dense clusters of four to nine. Valuable for its very fragrant flowers.

grandiflorus. A handsome, tall-growing shrub, with narrow, oval, green leaves. The flowers are white in medium-sized clusters.



Hydrangea otaksa



Crape Myrtle

OLEA fragrans (Sweet or Tea Olive). A shrub with bright glossy foliage and small, white, sweet-scented flowers. Blooms for a long time in winter and early spring.

	Each	Per 10
5-inch pots.....	\$1 25	\$11 50

OLEANDER (*Nerium Oleander*). Very satisfactory, free-blooming evergreen shrubs of easy culture, adapted for outdoor planting in Florida and the Gulf Coast regions. The leaves are long, narrow-pointed, bright, while the flowers are very showy and produced freely. Planted singly in groups or in hedges, they are a valuable addition to any lawn.

	Each	Per 10
4-inch pots.....	\$0 50	\$4 00
6-inch pots.....	75	6 50

Field-grown, Double Pink only..... 1 00 and up

Double, Pink. A fine variety, with large, double, pink flowers.

Double, White. Flowers double, white; produced abundantly.

Madonna grandiflora. A strong-growing variety, with white, semi-double, fragrant flowers. Very fine.

Oleander, Single, Pink. A very showy, single pink variety of strong growth.

Single, White. A very free-flowering form with large masses of flowers. Very hardy.

PHYLLANTHUS. Beautiful shrubs with dark zigzag branches and thin medium-sized leaves. Very beautiful when grown singly or in clumps or hedges. Fine for south Florida.

	Each	Per 10
10 to 18 inches.....	\$0 50	\$4 50
18 inches and up.....	75	6 50

nivosus roseo-pictus. A handsome shrub with beautiful foliage in various shades of green, white, pink and red.

nivosus atropurpureus. Purple leaves and stems. A good strong grower and makes a beautiful shrub. Fine for hedges.

PITTOSPORUM. Broad-leaved evergreen shrubs with beautiful bright foliage, clustered at the ends of the twigs. Flowers in spring; can be pruned any shape. No shrubs suitable for southern planting surpass *Pittosporum Tobira* and its variegated form. They are both adapted for seaside planting and neither of them seem to be par-

Pittosporum, continued

cticular about the soil in which they are set.

	Each	Per 10
3-inch pots	\$0 50	\$4 50
4-inch pots	75	6 50
6-inch pots	1 00	8 50
Extra-size plants. 1 50		

Tobira. Hardy, foliage dark green, shiny. Can be pruned to any desired shape; grows well in shade. Makes a fine hedge.

Tobira variegatum. Has light green foliage, variegated white; fine and showy.

undulatum. Leaves broad, rich deep green, and shining, with wavy margins. It may be grown as a tree or used as broad hedges. Flowers orange-scented. Half-hardy.

PLUMBAGO capensis. A very showy, low-growing evergreen shrub producing an abundance of light blue flowers.

	Each	Per 10
4-inch pots	\$0 75	\$6 50
6-inch pots	1 00	9 00



Amoor River Privet Hedge

POINSETTIA (*Euphorbia pulcherrima*). The true flowers are small and yellowish, but the bracts surrounding them are very showy, bright red and gorgeous. Leaves large-lobed. A fine decorative plant indoors in the North or outdoors in south Florida.

	Each	Per 10
12 to 18 inches	\$0 50	\$4 00

POMEGRANATE, FLOWERING (*Punica*).

These shrubs are among the most satisfactory for general planting. Beautiful flowers in various shades of white and pink produced all summer.

	Each	Per 10
1 to 2 feet	\$0 50	\$4 50
2 to 3 feet	75	6 50

Double, White. A strong-growing variety with long, double, creamy white flowers.

Dwarf White. A free-flowering dwarf variety with creamy white flowers.

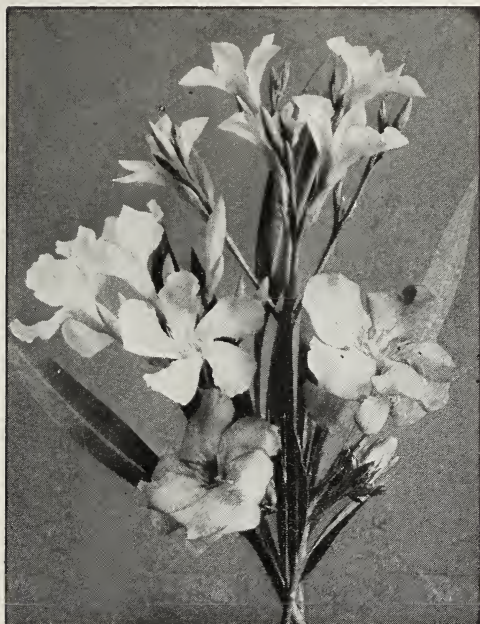
Mme. Legrelle. Pink, marked with crimson veins; very full and double.

PRIVET, Amoor River (*Ligustrum amurense*). A densely branched variety of rapid growth, with small, evergreen leaves. The best hedge Privet known, and may be pruned in any desired form. Very ornamental when grown as an individual specimen. This is the best hedge Privet, either North or South. For hedges set 10 inches apart.

	Each	Per 10	100	1,000
1-year	\$0 20	\$1 50	\$10 00	\$80 00

PYRUS arbutifolia. A native deciduous shrub, producing an abundance of white flowers. A splendid shrub for early spring bloom.

	Each	Per 10
2 to 3 feet	\$0 50	\$4 50
3 to 4 feet	75	6 50



Oleander (see page 56)

Southern Planting Facts

*Glen Saint Mary
Nurseries*

Shrubs and Hedge Plants

RAPHIOLEPIS indica (Indian Hawthorn). A fine evergreen shrub, reaching a height of about 5 feet. Leaves roundish, thick, dark green. Flowers white, or pinkish white, in flat bunches, sweet-scented. Hardy. Each Per 10
4-inch pots.....\$0 75 \$6 50
6-inch pots.....1 00 9 00

SERISSA foetida variegata. A low-growing much-branched evergreen shrub, reaching a height of about 2 feet; leaves dark green, yellow margined; flowers small, white, trumpet-shaped; very desirable where a low-growing shrub is required. Each Per 10
3-inch pots.....\$0 50 \$4 50

SPIRÆA. The Spireas can be planted in masses, around borders or in beds, with excellent results. They bear a profusion of showy flowers in early spring, and a group planting makes a showy mass. Hardy, and well adapted to the South. Each Per 10
1-year plants.....\$0 50 \$4 50
2-year plants.....75 6 50
3-year plants (Thunbergii,
Cantonensis and Canton-
ensis Double only).....1 00 9 00

Anthony Waterer. A dense, low-growing Spirea with foliage in various shades of yellow, red, and dark green. Flowers crimson, produced freely throughout the whole summer in flat-topped bunches. Height 2 feet.

Billiardii. An upright shrub, reaching a height of 5 to 6 feet, with dark brown branches and oblong leaves, grayish beneath. Flowers pink, in panicles 6 to 8 inches long. A constant summer bloomer.

Spiræa cantoniensis. A compact-branching shrub, 3 to 4 feet in height, producing a dense mass of pure white flowers; very handsome.
cantonensis, Double. This is a very beautiful double-flowered form, corresponding in other respects with the single one.

prunifolia. A very early-flowering shrub, with pure white flowers appearing before the leaves.

Thunbergii. White, winter-flowering. The slender branches and small leaves give the plants a feathery appearance.

Vanhouttei. Branches long and arching; leaves dark green; flowers produced in clusters along the branches; hardy.

TEA PLANT (Camellia Thea). An evergreen shrub usually reaching a height, with us, of 8 to 10 feet unless pruned back. Large, oval, serrate leaves; white, fragrant flowers 1½ to 2 inches in diameter. Very fine. Each Per 10
1 to 2 feet.....\$0 50 \$4 50
2 to 3 feet.....75 6 50
3 to 4 feet.....1 00 9 00

VIBURNUM Tinus (Laurestinus). A very fine, broad-leaved evergreen shrub, reaching a height of about 10 feet. Flowers fragrant, creamy white, borne freely in winter. This is one of the finest shrubs for general planting. Each Per 10
1 to 2 feet field-grown.....\$0 75 \$6 50

VITEX Agnus-castus (Chaste Tree). A deciduous shrub, or much-branched small tree. Flowers lilac in racemes, opening in May. Each Per 10
3 to 4 feet.....\$0 75 \$6 50



Spiræa Thunbergii



Dogwood Flowers



Shade Trees in Nursery



Magnolia Tree

Shade Trees

Nowhere in the country is shade so acceptable or so necessary as in the South. Whether in park or city street, country road or lawn, Shade Trees are valued not as luxuries, but as necessities for health and comfort. Nothing adds more to the home grounds, nothing so improves the appearance of town or city, as well-placed, healthy, vigorous Shade Trees.

The list of trees which is offered to our customers we can strongly recommend for planting throughout the southern states. They are carefully grown and trained. The roots are well developed and the stems are straight. They are given the same care that we give all our fruit trees. Grown in nursery rows for a number of years, our Shade Trees are vastly superior in every way to the trees which may be obtained from the woods and transplanted to the home grounds. **For trees shipped with balls of earth, see pages 48 and 49.**

ALBIZZIA Julibrissin. A small tree with low, spreading, flat-topped head and finely divided, dark green, compound leaves. Flowers pink, showy, borne in large bunches at the ends of the branches. A very handsome, rapid-growing tree, suited for planting throughout the South; hardy as far north as Washington.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00
6 to 8 feet.....	1 50	12 50

ANISE TREE (*Illicium anisatum*). A handsome, hardy, broad-leaved, evergreen shrub reaching a height of 10 to 12 feet. Leaves anise-scented when bruised.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50

AUSTRALIAN SILK OAK (*Grevillea robusta*). A tree with fern-like foliage; rapid grower, well adapted to southern Florida. Most desirable evergreen tree.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00

BAUHINIA purpurea. A small or shrubby tree, with large flowers in different shades of light blue to dark purple, produced during winter and spring in great profusion. A very desirable and satisfactory plant

Prices of <i>Bauhinia purpurea</i>	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50

CHERRY LAUREL. This fine broad-leaved evergreen is a native of the South. The leaves are large, bright, shiny. When grown to full height, it reaches 30 to 40 feet. It may be pruned in any desired shape. Makes a very fine hedge.

	Each	10	100
1 to 2 feet.....	\$0 25	\$2 00	\$18 00

CHINESE PISTACHE (*Pistacia sinensis*). A very beautiful deciduous tree from China, with finely divided leaves, wine-colored when young and highly colored in autumn. We regard it as a very valuable addition to our list of shade trees. Few trees surpass it in beauty, and where a medium sized tree is desired it is very satisfactory.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50

DOGWOOD, White (*Cornus florida*). A small tree, with spreading, bushy top and bright green leaves. The flowers, with their large, white bracts, appearing in spring before the leaves, make the Dogwood one of the most striking ornamental trees. The showy, bright scarlet fruit ripens in autumn, making it very attractive at this season.

	Each	Per 10
3 to 4 feet.....	\$0 75	\$6 50
4 to 6 feet.....	1 00	9 00

Southern Planting Facts

*Glen Saint Mary
Nurseries*

Shade Trees



Cork Elm

ELMS. A group of large, stately, rapid-growing trees, well suited for planting on moist soil. They are among our most satisfactory shade trees for streets or lawns. We offer varieties well adapted to the South.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00
6 to 8 feet.....	1 50	12 50
8 to 10 feet.....	2 50	20 00
Special.....	3 50	and up

American (*Ulmus americana*). A very desirable variety, with long, gracefully curved branches. Leaves green, lighter beneath.

Cork (*Ulmus racemosa*). Best adapted to the South, reaching a great height and with oblong, rounded top. Branches clothed with dark green leaves and provided with corky wings, giving the tree a unique aspect.

EUCALYPTUS. Rapid-growing evergreen Australian trees, many of which do splendidly in Florida. We have made a careful selection of the most desirable sorts. They are all pot-grown and easily transplanted.

	Each	Per 10
1 to 2 feet.....	\$0 40	\$3 00
2 to 3 feet.....	50	4 00
3 to 4 feet.....	75	6 50

Eucalyptus polyanthemos. A very ornamental variety; leaves nearly round, silvery. Thrives under a great variety of climatic conditions. Produces very fine wood.

robusta (Swamp Mahogany). A rapid-growing tree, with spreading, reddish branches, large, oval, dark green, pointed leaves and rough, dark brown bark. Perhaps the most desirable Eucalyptus for shade.

rostrata. Grows well under a great variety of conditions. Stands extremes of heat and cold.

rudis. Very fine for street planting; withstands extremes of both heat and cold.

tereticornis. A valuable timber Eucalyptus, well adapted to trying conditions. Hardy.

viminalis. A very handsome Eucalyptus, with long pendulous branches. It stands considerable cold. Trees of this species on our grounds at Glen Saint Mary have grown splendidly and have been uninjured during the winters of the past five or six years.

FICUS elastica. In south Florida this Rubber makes a very satisfactory shade and ornamental tree. See page 69.

FLOWERING WILLOW (*Chilopsis linearis*).

A spreading tree, reaching a height of 15 or 20 feet. Leaves long, narrow, willow-like. Flowers lilac, striped with yellow, borne throughout most of the summer. Does well on dry land; handsome and odd.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50

GORDONIA Lasianthus. A fine evergreen tree, reaching a height of 50 to 60 feet with large dark green, shiny leaves. Flowers white, resembling small magnolias, and borne freely on young trees. Grows satisfactorily on different types of soil.

	Each	Per 10
2 to 3 feet.....	\$0 75	\$6 50
3 to 4 feet.....	1 00	9 00
4 to 6 feet.....	1 50	12 50
Extra sizes.....	\$2 to \$4	

HACKBERRY (*Celtis occidentalis*). A large, rapid-growing tree, with spreading branches and rounded head. Leaves oblong, narrow, pointed. It grows well over a wide area.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00
6 to 8 feet.....	1 50	12 50
8 to 10 feet.....	2 50	20 00

HOLLIES. These fine evergreen trees are at home all over the South. They are not surpassed in beauty by any of our broad-leaved evergreens. We are now in position to offer three varieties. All grafted from selected fruit-

Shade Trees

Hollies, continued

bearing trees. We can furnish all three species with balls of earth if desired.

	Each	Per 10
2 to 3 feet.....	\$0 75	\$7 00
3 to 4 feet.....	1 00	9 00
4 to 6 feet.....	1 50	12 50
6 to 8 feet.....	3 00	25 00

American Holly (*Ilex opaca*). The Christmas Holly. Its bright green, spiny leaves and brilliant scarlet berries make it one of our handsomest evergreen shade trees. Should be severely cut back when transplanted from open ground.

Dahoon Holly (*Ilex Dahoon*). Budded trees of the Dahoon Holly of the South. Leaves bright and glossy, branches literally covered with bright red berries. One of the most valuable broad-leaved evergreens in our list and we strongly recommend it.

Myrtle-leaved Holly (*Ilex myrtifolia*). This attractive evergreen Holly has small, bright green leaves, and produces an abundance of bright red berries. One of the finest ornaments for the lower South. Native in some parts of the southern states.

MAGNOLIA grandiflora. The grandest broad-leaved evergreen of the southern forests. Leaves large, bright shining above, usually coated with brownish hairs beneath. Flowers beautiful, large, often 8 to 10 inches across, waxy white, lemon-scented and produced throughout a period of two or three months.



Laurel Oak (see page 62)

Prices of Magnolia	Each	Per 10
2 to 3 feet.....	\$0 75	\$6 50
3 to 4 feet.....	1 00	9 00
4 to 6 feet.....	1 50	14 00
6 to 8 feet.....	3 00	25 00
8 to 10 feet.....	5 00	

MAPLE, Scarlet (*Acer rubrum*). Our handsomest Maple, growing to large size, with moderately spreading branches. Leaves are three-to-five-pointed, light green above, white beneath, changing to vivid shades of scarlet and gold in autumn. From very early spring until late autumn the Scarlet Maple is always attractive.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00
6 to 8 feet.....	1 50	12 50
8 to 10 feet.....	2 50	20 00

OAK (*Quercus*). Long-lived, of rapid growth, with graceful, rounded tops. The Oaks are among our most valuable and common shade and ornamental trees and can be grown almost anywhere.



Magnolia grandiflora

Southern Planting Facts

Glen Saint Mary
Nurseries

Shade Trees



MELIA AZEDERACH Texas Umbrella Tree UMBRACULIFORMIS

PRICES OF OAKS	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00
6 to 8 feet.....	1 50	12 50
8 to 10 feet.....	2 50	20 00
Special.....	3 50	and up

Laurel Oak (*Quercus laurifolia*). A medium- or large-sized tree, with thick, rounded head and slender branches. The leaves are oblong, sometimes lobed, dark green. A handsome shade and avenue tree, and of commanding appearance as single specimens.

Live Oak. A fine long-lived evergreen tree, native of the South. Our stock of these is produced from a very fine type. 2 to 3 feet only.

POPLAR (<i>Populus Simonii</i>).	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00

SYCAMORES. Stately trees with white bark, upright, spreading branches and symmetrical heads. Rapid-growing and well suited for trying locations. Where quick-growing shade trees are desired for street or yard planting, there are no better trees than the Sycamores. They are hardy, vigorous and dependable. A handsome avenue tree.

PRICES OF SYCAMORES	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00
6 to 8 feet.....	1 50	12 50
8 to 10 feet.....	2 50	20 00
Special.....	3 50	and up

American (*Platanus occidentalis*). A noble tree with spreading branches and white or grayish bark. A very rapid grower.

European (*Platanus orientalis*). A large tree, with rounded head. Bark white; leaves large, five- to seven-lobed.

RED-BUD (*Cercis canadensis*). A small tree, 20 to 30 feet high, with rounded handsome leaves, producing an abundance of rosy pink flowers in early spring which make it an attractive object in any landscape. Should be planted on well-drained land.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00
6 to 8 feet.....	1 50	12 50

SWEET GUM (*Liquidambar styraciflua*). Rapid-growing, native tree, with rather narrow, symmetrical, conical head. Branches often corky winged. Leaves bright green, five- to seven-pointed; in autumn brilliantly colored in shades of red and crimson.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00
6 to 8 feet.....	1 50	12 50

CHINESE SWEET GUM (*Liquidambar formosana*). A very fine shade tree, related to our native sweet gum, but differing from it in that the foliage is different in shape and wine-colored when young. As new shoots are produced over a long season, this coloring is very attractive. It is a strong grower and a desirable shade tree.

	Each	Per 10
2 to 3 feet.....	\$1 00	\$9 00
3 to 4 feet.....	1 50	12 50

TEXAS UMBRELLA. A medium-sized tree, with flat, umbrella-like top. Foliage finely divided, dark green, casting a dense shade. A very desirable shade tree. Especially adapted for planting in eastern Virginia and the Carolinas.

	Each	Per 10
2 to 3 feet.....	\$0 50	\$4 00
3 to 4 feet.....	75	6 50
4 to 6 feet.....	1 00	9 00



Phoenix canariensis



Palm Planting



Sabal Palmetto

PALMS AND CYCADS

Palms are among the most striking plants which may be used for outdoor southern planting. Their bare, single stems and huge, arching leaves separate them from all other plants. Wherever seen, well-grown specimens always attract attention and give a decidedly tropical touch to the grounds and to the landscape. As street and shade trees, they are excellent and worthy of much more extensive use. The varieties which we offer our customers will be found most satisfactory for outdoor planting. All are pot-grown, or shipped with balls of earth, and may therefore be transplanted at any season of the year.

The place where a Palm is to be planted should be well prepared. The soil, if poor, should be thrown out, leaving a good-sized hole—30 inches square and deep is about right. Fill in with good, rich soil, carrying with it one-third well-rotted stable manure. Plant the Palm in this hole without disturbing in any way the soil that comes about its roots, pack tightly into place, tie the fronds rather closely together to keep them from being tossed about by the wind, thereby loosening the plant in the soil, and water freely. Later, the strings about the fronds should be loosened, and in ten weeks or so may be removed entirely. Fertilize liberally. Palms are gross feeders and require plenty of plant-food for their best growth. Stable manure and other organic fertilizers give splendid results.



Phoenix reclinata (see page 60)

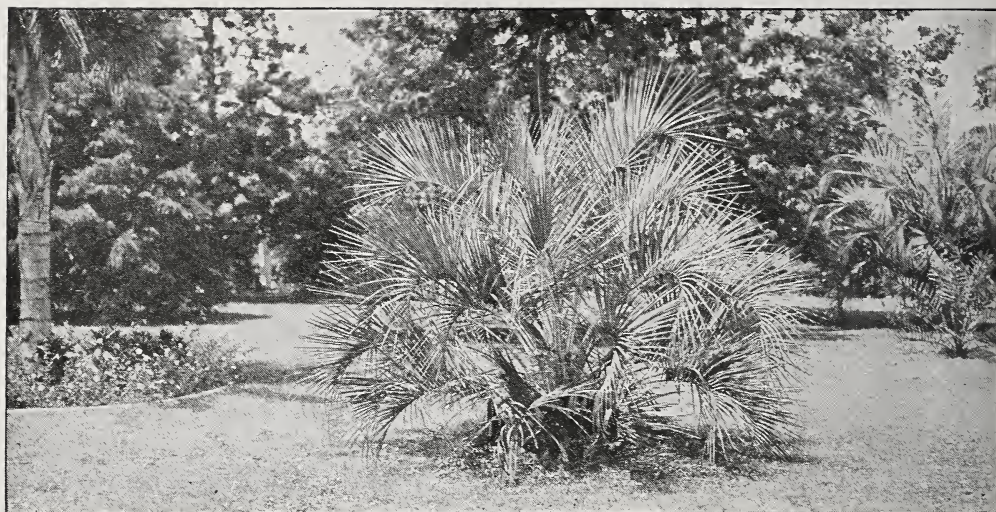
HARDY PALMS AND CYCADS

CHAMÆROPS excelsa. The Chusan Fan Palm is one of the particularly hardy sorts, withstanding cold to several degrees below freezing. Reaches a height of about 15 feet; a valuable variety.

	Each	Per 10
4-inch pots.....	\$1 00	\$7 50
6-inch pots.....	1 50	

CYCAS revoluta (Sago Palm). A Palm-like Cycad, reaching a height of 3 to 4 feet, with a handsome crown of deep green leaves curved outward from the center; very hardy; grows well out-of-doors in north Florida and along the Gulf Coast. Young plants have but a single stem; old ones are often branched. We have a particularly fine lot of these.

	Each	Per 10
Small size.....	\$0 75	\$6 50
Medium size.....	1 00	9 00
Large size.....	2 00	18 00
Special plants.....	3 00	and up



Cocos australis

COCOS australis. A very beautiful, hardy Palm with grayish green, curved pinnate leaves. Deserves to be widely planted as it is one of the most desirable Palms.

	Each	Per 10
7-inch pots.....	\$1 50	\$12 50
Strong field-grown.....	3 00	25 00
12-inch tubs.....	3 00	25 00

plumosa. This tree is one of the most beautiful of the Palms, adapted to south Florida and similar sections. Trunk 40 to 50 feet high, smooth, about 12 inches thick, marked with rings; leaves erect and

Cocos plumosa, continued

spreading, about 15 feet long. A fine Palm for avenue and street planting.

	Each	Per 10
4-inch pots.....	\$1 00	\$9 00

PHŒNIX canariensis. A stately Palm, with large trunk and large, pinnate, gracefully curved leaves. A rapid grower; very hardy and one of the best for outdoor planting in the Gulf Coast country.

	Each	Per 10
6-inch pots.....	\$1 50	\$12 50
8-inch pots.....	2 50	22 50
12-inch tubs.....	3 50	30 00
2 to 3 ft., field-grown.....	3 50	30 00

reclinata. A fine Palm, with slender trunk and beautiful pinnate leaves. Suckers are produced abundantly from the base, and if allowed to grow, develop into splendid clumps. Well adapted to south Florida.

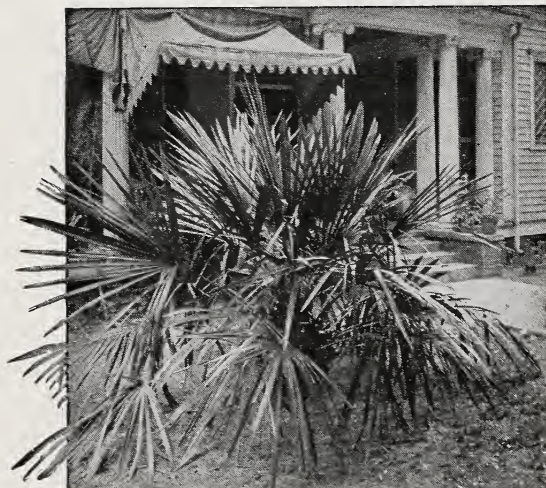
	Each	Per 10
7-inch pots.....	\$1 50	\$12 50
10-inch pots.....	2 50	22 50
14-inch tubs.....	5 00	

sylvestris. A tall, hardy, rapid-growing Palm which equals or surpasses *Phœnix canariensis* in beauty and hardiness. The leaves are of large size, grayish green in color. One of the best of the hardy Palms.

	Each	Per 10
8-inch pots.....	\$2 00	\$17 50
12-inch tubs.....	3 50	32 50

tenuis. A fine hardy Palm, similar to *P. canariensis* but with more slender trunk and smaller, arching leaves, that are light green and glaucous; a rapid grower. Very ornamental.

	Each	Per 10
6-inch pots.....	\$1 50	\$12 50
10-inch pots.....	2 50	22 50



Rhapidophyllum hystrix (Needle Palm)

RHAPIDOPHYLLUM hystrix (Needle Palm).

Native to the southern United States from South Carolina to Florida, but rarely seen in cultivation. The trunk is short, 2 to 3 feet, covered with fiber in which are set numerous upright spines. The leaves are borne on long petioles, dark shiny green, under surface pale gray. Beautiful when planted in clumps.

Prices on Rhapsodophyllum hystrix	Each	Per 10
Small size.....	\$1 00	\$9 00
Medium size.....	2 50	20 00
Large size.....	5 00	45 00
Extra size.....	8 00	60 00

SABAL glabra (Dwarf Palmetto). A native species of Palmetto with short trunk and large fan-shaped leaves almost circular in outline; dark bluish green. Satisfactory for low clumps and masses.

	Each	Per 10
4-inch pots.....	\$0 75	\$6 50

Palmetto. This is the beautiful native Palm of the South, commonly called "Cabbage Palmetto." The trunk grows tall, the leaves are large, dark green, fan-shaped, with curved, reflexed midrib, giving them an appearance about half-way between the fan and the pinnate-leaved Palms. Well adapted to the whole Gulf Coast country, and it succeeds on a wide range of soils and can be grown throughout the whole region bordering on the Gulf and along the Atlantic as far north as Cape Hatteras. The Cabbage Palmetto and Needle Palm are the hardiest of our native Palms.



Avenue of Washingtonia robusta

Prices on Sabal Palmetto	Each	Per 10
12 to 18 inches, nice plants..	\$0 75	\$6 50
18 to 24 inches, showing character.....	1 00	9 00
2 to 3 feet, well developed...	2 00	17 50
3 to 4 feet, stout plants.....	3 50	32 50

WASHINGTONIA robusta. A splendid Palm with dark green fan-shaped leaves; hardy, well adapted to Florida and the country bordering on the Gulf of Mexico. One of the finest for use in landscape plantings.

Sonoræ. A beautiful Palm resembling Robusta, but more dwarf of habit. Leaves medium size and very dark green. Hardy and very desirable.

Prices on Washingtonia robusta.	Each	Per 10
12 to 18 inches.....	\$1 00	\$8 50
18 to 24 inches.....	1 50	12 00
2 to 3 feet.....	3 00	25 00
3 to 4 feet.....	5 00	40 00
4 to 5 feet.....	8 00	70 00
5 to 6 feet.....	10 00	90 00

Prices on Washingtonia Sonoræ.	Each	Per 10
1 to 2 feet.....	1 50	12 50
2 to 3 feet.....	3 00	22 50

LATANIA borbonica. One of the best fan Palms for house use, and in south Florida it grows well out-of-doors.

	Each	Per 10
4-inch pots.....	\$1 00	\$9 00
6-inch pots.....	1 50	12 50

SEAFORTHIA elegans. Graceful, with upright, arching, dark green, pinnate leaves and smooth, rounded trunk. It stands the trying house conditions splendidly.

	Each	Per 10
5-inch pots.....	\$1 50	\$12 50
6-inch pots.....	2 00	17 50



Washingtonia Sonoræ



Bambusa aurea



Planting of Ornamental Grasses



Bambusa argentea

BAMBOOS, GRASSES, SEDGES

Among ornamental plants, none are more important than the Bamboos and taller-growing Grasses. The long, willowy canes and fine foliage give a delicate, pleasing effect. Under suitable climatic conditions they will grow on very poor soil, particularly if well supplied with plant-food and water. Either commercial fertilizer or stable manure may be used to good advantage. The large-growing varieties of Bamboos make excellent windbreaks, and are also valuable for tall hedges and as screens for unsightly buildings or other objects. They are excellent for planting in ditches, canals and water-courses. In such locations they grow to perfection.

Those listed below have been carefully tested for hardiness and general beauty. They will withstand temperatures of twelve to fifteen degrees above zero without injury, and should be more generally used throughout the South. Nothing else takes their place, and, where tropical effects are desired, Bamboos are among the most satisfactory plants to use. They may be planted either in single clumps or in masses, but must be allowed a goodly amount of space.

PRICES ON BAMBOOS, PAMPAS GRASS, AND HARDY PLUME GRASS.

	Each	Per 10
Small clumps.....	\$0 75	\$6 50
Strong clumps.....	1 00	9 00
Extra-strong clumps.....	2 00	and up

BAMBOOS

ARUNDINARIA falcata. A graceful Bamboo, reaching a height of 10 to 12 feet. Grows in dense clumps; leaves fern-like. Hardy.

nitida. Dwarf, compact-growing Bamboo, with beautiful foliage, reaching a height of 3 to 4 feet, with rounded top.

BAMBUSA argentea. This very desirable variety reaches a height of 30 to 40 feet, with graceful, spreading top. Hardy.

argentea striata. This variety is the same as Argentea, except that the leaves are beautifully striped green and white. A strong grower. Hardy.

aurea. Stems yellow, reaching a height of 10 to 12 feet. Rootstocks spreading; branches open and spreading. Hardy.

Metake. A handsome, broad-leaved Bamboo, reaching a height of 10 feet. Grows in large, dense masses; ornamental. Hardy.

verticillata. Canes striped yellow; 15 to 20 feet. Makes fine clumps; very hardy.

violascens. A low-growing Bamboo with dark, much-branched stems; rootstocks spreading. Hardy.



Bambusa Metake

ORNAMENTAL GRASSES AND SEDGES

These are very valuable plants for many purposes—as individual specimens, for grouping, for the borders of walks or edges of beds of flowering plants of various sorts.

Prices on Ornamental Grasses and Sedges not priced with Bamboos.

	Each	Per 10
Medium clumps.....	\$0 35	\$3 00
Strong clumps.....	50	4 00

ERAGROSTIS chloromella (Blue Plume Grass). A handsome Grass with narrow, bluish green foliage. Leaves long, arching, and make a solid mat. Excellent for edging.

curvulea (Green Plume Grass). Foliage green, retaining its color the year round. Similar in habit to *Eragrostis chloromella* and very useful for the same purposes.

ERIANTHUS Ravennæ (Hardy Plume Grass). A hardy grass, reaching a height of 10 or 12 feet, with numerous flower-spikes. It resembles Pampas Grass.

EULALIA gracillima univittata (Japan Rush Grass). A Grass of graceful habit, with narrow leaves, bright green in color, and silvery midribs. Height 5 to 6 feet.

PAMPAS GRASS (*Gynerium argenteum*). A large, strong-growing Grass producing splendid clumps 6 to 8 feet high, with white, plume-like flowers. A valuable ornamental Grass. May be used as a screen against walls or unsightly objects.



Pampas Grass

PANICUM palmifolium (Palm Grass). A vigorous-growing Grass with broad, handsome foliage; makes a splendid pot plant and is also good for growing out-of-doors. Leaves 4 or 5 inches broad; very ornamental.

PENNISSETUM japonicum. This Grass reaches a height of about 4 feet, with narrow, bright green foliage and flower-heads tinged with purplish bronze.

japonicum variegatum. A very fine form of the above, lower growing, with beautiful white, green, and pinkish tinted leaves; fine for baskets, boxes, or for edging of flower-beds.

longistylum (White Fountain Grass). A fine, dwarf Grass with broad feathery spikes 2 to 4 inches long. One of the best Grasses for bedding purposes.

Rupelianum (Purple Fountain Grass). An ornamental Grass with purplish plumes and graceful green foliage. Very fine for edging beds of cannas or other tall-growing plants.

Sedges

CYPERUS alternifolius. An attractive Sedge, growing in clumps, and reaching a height of 18 to 36 inches; leaves drooping, spreading in umbel-like clusters. A good plant for pot culture and for planting out-of-doors in Florida.

ISOLEPIS gracilis. Stems of this Sedge are 6 to 10 inches long, slender, round, erect at first, afterwards drooping. Easily cultivated; makes a good pot plant and very fine for window- or porch-boxes.

LAWN GRASSES

In the lower South lawns are not so easily made as in some other parts of the country. The Grasses are started not from seed but by setting out parts of the plants, either stems or rooted stems. One bushel of Bermuda grass will set about 1,500 square feet and a bushel of St. Augustine about 800 square feet. The Grasses which succeed farther north are not suitable, and the two grasses commonly used are the following.

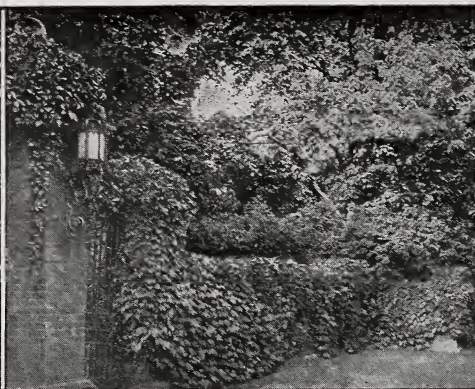
Per 100 cuttings, \$1; per bushel, \$2.50

BERMUDA. A fine-leaved Grass which, with proper attention, makes a very dense mat; not adapted to shady places.

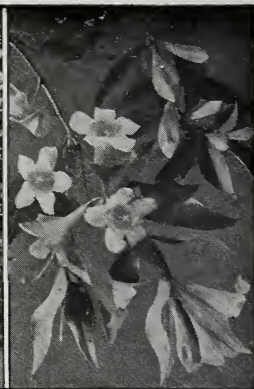
ST. AUGUSTINE. A broad-leaved Grass which makes a coarse sward, but with care and attention makes a very satisfactory lawn. This Grass is unsurpassed for growing under trees or in other shady locations.



Purple Wistaria



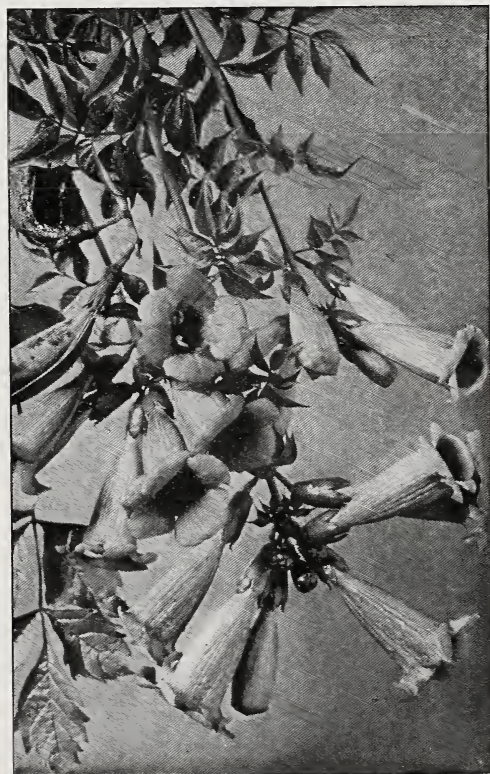
Wall Covered with Japan Ivy



Yellow Jessamine

VINES

To add to the beauty of the home and its surroundings, Vines of different kinds are unsurpassed. If many bare, unsightly walls were covered by them, they would become things of beauty, for Vines have the power to soften lines and cover up imperfections. Where it is desired to give an appearance of age to a building, they are unequaled.



Bignonia radicans (see page 69)

Nothing can surpass the glory of the Wistaria, the Yellow Jessamine and *Bignonia speciosa*, when in full bloom. The Japan Ivy and Virginia Creeper are well adapted for brick walls, or surfaces where a Vine is required to climb by fastening itself. The Honeysuckle and Trumpet Vine are splendid for covering mounds, dead trees and fences. The Yellow Jessamine, the two Honeysuckles, Allamanda and Rhyncospermum, are evergreen, and where an evergreen covering is desired they should be given preference. The Rhyncospermum, Yellow Jessamine and Trumpet Honeysuckle are sweet-scented. It should be borne in mind that the Climbing Roses and Muscadine Grapes are useful for these same purposes.

For best results, the land should be well prepared, and, if planted near brick walls, the mortar and brickbats should be removed. Dig deeply and mix a fair amount of commercial fertilizer with the soil about two weeks before planting. After they are established, commercial fertilizer or stable manure may be used as a surface dressing. With good drainage, Vines require plenty of water.

PRICES ON VINES		Each	Per 10
Medium plants.....	\$0 50		\$4 00
Strong plants.....	75		6 50
Extra-strong plants.....	1 00		

ALLAMANDA Hendersonii. A strong-growing vine, with large, glossy evergreen foliage and large, trumpet-shaped, golden yellow flowers. Tender; adapted to south Florida.

ANTIGONON leptopus (Mountain Rose). A handsome vine with heart-shaped leaves, producing large racemes of rose-pink flowers; adapted to sunny locations.

BIGNONIA. Strong-growing, free-flowering vine with beautiful trumpet-shaped flowers in different shades of yellow, orange and blue.

Chamberlaynii. A hardy evergreen vine, producing an abundance of bright yellow flowers in early spring.

radicans (Trumpet Vine). Leaves compound, deciduous, dark green; flowers brilliant orange, produced throughout the summer. Very hardy. (See page 68.)

speciosa. A hardy evergreen vine, with glossy leaves. Flower clusters large; purple.

venusta. One of the strongest-growing vines, climbing to a great height; evergreen with bright, glossy foliage; flowers borne in great profusion, tubular, bright reddish orange; very showy. Tender; adapted to south Florida.

BOUGAINVILLEA glabra Sanderiana. A showy vine, bearing large masses of purple flowers. A strong grower and reaches a great height. While tender, with care it does quite well even in north Florida.

CLERODENDRON Thomsonæ. A high-climbing evergreen, free-flowering vine adapted to southern Florida and similar climates. Leaves dark green, opposite; flowers white, with red centers; very fine.

ENGLISH IVY (*Hedera helix*). The well-known English Ivy. An excellent covering for walls and tree trunks. In Florida succeeds best in shaded locations.



White Honeysuckle

FICUS repens (Evergreen Climbing Fig). No other vine is quite so satisfactory for covering foundations of buildings or walls. Small-leaved evergreen vine; quite hardy.

HONEYSUCKLE (*Lonicera*). Rapid-growing vines, with handsome flowers. Make a dense covering adapted for porches, trellises, and for hiding unsightly places.

Trumpet (*Lonicera sempervirens*). A beautiful, strong-growing vine, with oval leaves, bluish green in color. Flowers showy, scarlet on the outside, yellow within, large and produced nearly the whole year with us. Even in winter it continues in bloom.

White (*Lonicera japonica*). A rapid-growing vine, stems slender, leaves dark green. Flowers sweet-scented, white, changing to yellow. Produces a dense covering.

JAPAN IVY (*Ampelopsis Veitchii*). A beautiful, rapid-growing vine, with three-lobed or three-parted, dark, glossy green leaves. A very beautiful vine, especially adapted for covering brick and stone walls. (See page 68.)

JASMINUM pubescens. An evergreen vine or scrambling shrub, with beautiful green foliage and showy, white, star-shaped flowers. It may also be grown in shrub form. Quite hardy and a satisfactory vine.

RHYNOSPERMUM (*Rhynchospermum jasmminoides*). Leaves rounded, rather small, thick, shiny; flowers produced freely, white, star-shaped, small, very fragrant. A very desirable vine. Hardy and evergreen.

VIRGINIA CREEPER (*Ampelopsis quinquefolia*). A hardy, rapid-growing, clinging vine; leaves deciduous, dark green, five-parted, gorgeously colored in fall. A splendid vine for walls, arbors, and porches.

WISTARIA (*Wistaria chinensis*). Magnificent, strong-growing, woody vines, hardy throughout the country. Leaves deciduous; the flowers are borne in large, pointed clusters, with or before the leaves in spring. Wistarias make handsome specimens when staked and grown as trees.

Purple. A very strong-growing sort, producing large panicles of purple flowers. (See page 68.)

White. A very fine variety, with large clusters of delicately scented white flowers.

YELLOW JESSAMINE (*Gelsemium sempervirens*). A slender, rapid-growing evergreen vine. Flowers yellow, fragrant, produced in profusion during the spring months. (See page 68.)



Pandanus Veitchii



Window-Box Planting



Dracaena

Decorative Plants

House plants are usually expected to grow and look well under very hard and trying conditions. Most plants require sunshine, moisture in the soil and in the air, a free movement of the air itself and good soil in which to grow and remain healthy. In the house good soil may be furnished, but the other things are often difficult to secure. The following list of plants contains many sorts selected purposely with the idea of meeting these unfavorable conditions and at the same time combining the necessary decorative effect in their form and appearance. In this class may be grouped *Ficus*, *Pandanus*, *Vinca* and *Ophiopogon*. In addition to giving satisfaction under trying conditions, they will respond to better treatment in more vigorous growth and greater beauty. See also Palms and Ferns.

ARALIA filicifolia. A shrubby plant with fern-like foliage, reaching a height of about 8 feet. Fine in all sizes.

Guilfoylei. A handsome, showy shrub for house or outdoor culture. Leaves green, margined with white.

Nice plants.....	Each	Per 10
Extra-strong plants.....	\$1 00	\$9 00

CROTONS. Shrubby plants with foliage variegated in many different brilliant shades. They require plenty of moisture and high temperatures.

4-inch pots.....	Each	Per 10
6-inch pots.....	\$1 00	\$9 00

DRACÆNA indivisa. This fine plant has long, narrow, graceful foliage. A fine variety for vases or porch-boxes, and may be grown out-of-doors in southern Florida.

ensiformis. An excellent variety with medium green foliage. Fine for porch-boxes.

Lord Wolseley. Fine; bright red leaves.

terminalis. A very decorative variety, with crimson foliage, striped with pink and white. Does well under average house conditions; is also a fine summer porch plant.

Prices on Dracænas:	Each	Per 10
4-inch pots.....	\$1 00	\$9 00
6-inch pots.....	2 00	

FICUS altissima. A splendid house plant, with large, roundish oblong leaves.

elastica. The common Rubber Plant with bright, shiny leaves. Will stand much abuse.

Prices on Ficus:	Each	Per 10
12 to 18 inch.....	\$1 00	\$8 50
18 to 24 inch.....	1 50	12 00
2 to 3 feet.....	2 00	

GREVILLEA robusta (Australian Silk Oak).

Young plants of this species are very fine for decorative purposes. (See page 59.)

OPHIPOGON japonicus. A low-growing plant with dark green, grass-like foliage. A good plant for window and porch-boxes.

3-inch pots.....	Each	Per 10
4-inch pots.....	\$0 25	\$2 00
	50	4 00

PANDANUS Veitchii. One of the finest decorative plants, with sword-like, sharp-pointed foliage; green striped with creamy white.

4-inch pots.....	Each	Per 10
6-inch pots.....	\$1 00	\$8 50
	2 00	

SANSEVIERIA laurentii. A variety of Bow String Hemp with beautifully banded dark light green sword-like leaves, with a yellow stripe on the margins. Adapted for culture under trying conditions. 75 cts. and \$1 each.

VINCA major variegata. A trailing plant with glossy green leaves, margined with creamy white. Flowers blue. One of the best plants for hanging-baskets, vases, and porch-boxes.

minor. A dark green trailing plant, valuable for boxes and for cemetery planting.

3-inch pots.....	Each	Per 10
4-inch pots.....	\$0 35	\$3 00
	50	4 50



Adiantum



Boston Fern



Fern Dish

Ferns and Asparagus

For house decoration few plants surpass the Ferns for general use, both on account of their great beauty and the ease with which they may be kept in good condition. Many plants require much sunshine for their best development, but these are naturally at home in partial shade. The soil in which they are planted should be rich and well supplied with vegetable matter in the form of leaf mold. Provide good drainage and water freely. The varieties which we can furnish are among the very best decorative varieties. They are well grown, vigorous, and healthy.

NEPHROLEPIS davallioides furcans (Staghorn Fern). Fronds 2 to 3 feet long, upright at first, later drooping. A fine decorative Fern.
exaltata (Sword Fern). Stiff and upright; valuable for shady places in open grounds and for window-boxes.

bostoniensis (Boston Fern). A fine decorative Fern, very vigorous, and succeeds under trying conditions.

Dwarf Boston. A dwarf form of the large-growing Boston Fern, with the same graceful habit and type of foliage.

elegantissima (Lace Fern). The small leaflets are divided into miniature fronds, giving both sides of the fronds a beautiful appearance.

John Wanamaker (The Wanamaker Boston Fern). Fronds long, narrow, and graceful.

Piersonii (Pierson's Boston Fern). The pinnæ are subdivided into small fronds making a graceful plummy plant.

robusta. A strong-growing crested form; makes a large-sized symmetrical plant.

Roosevelt. Pinnæ waved, giving the fronds a distinct appearance. A robust grower.

Scottii. A rather dwarf variety with spreading leaves, growing in compact clusters.

splendida. A very strong-growing variety, producing fronds of many different types.

Teddy Junior. Of vigorous dwarf growth, with wavy pinnæ and green fronds. Grows well under trying conditions.

Whitmanii. Resembles *N. elegantissima*, but the leaves are more open, fronds almost the same on both sides; dense growth.

Nephrolepis Whitmanii compacta. Leaves 15 to 18 inches long. More compact in growth than Whitmanii. A very fine variety.

MAIDENHAIR FERN (*Adiantum cuneatum*). Beautiful, graceful drooping fronds.

Prices on the above fifteen varieties: 4-inch pots, 75 cts. each; larger sizes, \$1, \$2, and up

NEPHROLEPIS Goodii (Baby's Breath Fern). Specimen plants are fluffy and dainty, with fine feathery fronds.

Scholzellii (Crested Fern). The fronds are erect and arched. A very handsome variety, splendid for table decorations.

superbissima. The twisted, dark green fronds look as if numerous small Ferns were growing out of them.

Prices on the above three varieties: 4-inch pots, \$1 each; larger sizes, \$1.50, and up

FERNS FOR FERN DISHES

These small or dwarf ferns are used for filling dishes for table decorations. Our stock includes the best varieties. 35 cts. each.

ASPARAGUS

Asparagus plumosus. A popular decorative plant with sprays of dark green feathery foliage. Suitable for shady places.

Sprengeri. Leaves narrow, dark green, branches drooping. Fine for hanging-baskets and porch-boxes. Grows well in shade.

Prices on Asparagus. Each Per 10
 3-inch pots \$0 35 \$3 00
 4-inch pots 50 4 00



View in Persimmon orchard planted with our trees

Planting Information

The land on which trees are to be set should be thoroughly prepared before planting. Too frequently this important matter is neglected or poorly done, but it pays to give particular attention to this part of the work. It is easier to put the land in good condition before planting than after, and, if the trees are to bring the results desired, it must be done at some time. It is best to clear the land a year in advance of planting, then grow a crop of cowpeas or velvet beans and turn it back into the soil. Good results may be secured without this, but it is a good plan to follow whenever possible.

STAKING

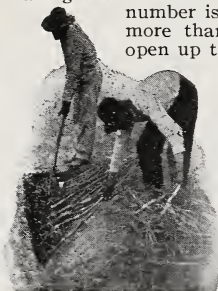
After the land has been well plowed, harrowed and leveled, a 3 or 4-foot stake should be set where each tree is to stand. Laths make good stakes for this purpose. While a number of different plans may be used in spacing the trees, it is usually best to set them in squares or in rectangles.

PLANTING DISTANCES

The distance apart at which the trees should be set depends upon the character of the soil, the moisture it contains, the kind of trees and the ideas of the planter. Usually they should be given a goodly distance. A table of usual planting distances is given on the inside back cover page.

CARE OF TREES ON ARRIVAL

When the trees arrive, if everything is in readiness, they may be taken directly to the field and set out, taking the trees from the boxes as needed. If the number is large, or there is a delay of more than a few days, it is best to open up the boxes or bales and heel-in the trees.



Heeling-in Peach trees

This heeling-in place they may be taken for planting, and carefully protected from the sun with damp burlap until placed in the holes.

DIGGING HOLES—FERTILIZERS

It is best to dig the holes just in advance of planting to prevent drying or baking; also loss of moisture. The holes should be made 6 inches wider and deeper than necessary to accommodate the roots. Place the top-soil in a pile by itself when the holes are dug. Commercial fertilizer analyzing about 6 per cent phosphoric acid, 4 per cent ammonia, 3 per cent potash, may be used at the rate of one-half to one pound per tree, thoroughly mixed with the

top-soil in filling in around the roots. We do not recommend the use of stable manure in the holes, though on pecans, persimmons, roses and ornamentals in general, it may be used to advantage as a mulch after planting, when well rotted.



Pruning tops of Grapefruit trees



Root-pruning Grapefruit trees

PRUNING

Some kinds of nursery trees must be pruned before shipping. Others are not pruned. It is a safe rule with practically all plants that the tops and broken roots should be cut back before planting.

SETTING THE TREES

Set the trees the same depth they stood in the nursery rows. The exact point can be determined by the earth-marks, or the "collar." Citrus trees, particularly, are very much injured by too deep planting, and it is a safe rule with all trees and shrubs to set them a little higher than they grew rather than lower. Spread out the roots carefully by hand, and pack the earth well around them. When the hole is three-quarters filled up, pack thoroughly with the feet. This is important. More trees are lost from loose packing than from any other cause. After packing thoroughly, and before the hole is quite filled up, pour in water, especially if the soil is dry. As the water sinks down into the earth, it helps to pack the soil in all the small corners among the roots. When the water has sunk away, fill up the balance of the hole, pack again with the feet, straighten up the tree and level off. If the weather and soil are dry it is often an excellent plan to bank up around the tree with dry soil. This prevents evaporation of moisture from the tree, keeps it steady in the ground, and is a great protection. This bank can be removed after it has served its purpose. Banking is a good protection against frost.

General Care

After carefully planting trees or shrubs they should receive such care and attention as will keep them in thrifty growing condition, and, if the best results are desired, they should never be allowed to become stunted in their growth. To bring about this condition they must be cultivated frequently, fertilized from time to time, and kept free from insects and diseases. Only those who give their trees the care they require can hope to secure the maximum results from their plantings. Consult your successful neighbors.

CULTIVATION

The ground around newly set plants must be kept free from weeds, because a growth of weeds deprives

One of our 2-year-old Grapefruit trees, eleven months after planting, in the grove of Mr. John H. Derby, Rockledge, Florida.

the trees of needed moisture and plant-food. Lawn specimens may be cared for by simply cutting out the turf in a circle of 2 feet radius around the trees, and keeping the circles well cultivated. Young orchard trees may be handled by cultivating a narrow strip 3 to 5 feet wide on each side of the tree-rows and the remainder of the ground (not cultivated) should be planted with a cover-crop to shade the soil and improve its condition when it is plowed under. It is best to continue the cultivation of the narrow strip throughout the season, or well up into autumn. Of course, if heavy rains occur, cultivation of young trees may at times be omitted, but even then weeds must not be allowed to grow up around the trees, thereby shading them to an injurious degree.



Planting a shade tree
See page 72



Cover-crop of beggarweed in a Pecan orchard

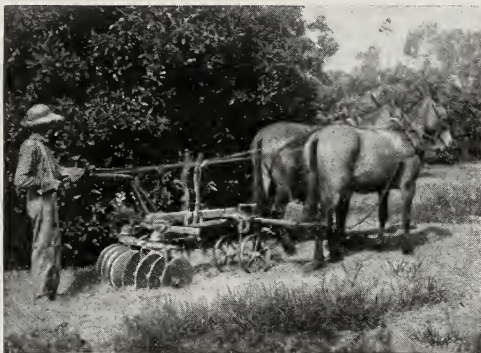
preserve a dust mulch and conserve moisture. The best cultivation tools are a disc harrow, an extension disc, an Acme harrow and, for heavy lands, a spring-tooth harrow. The plow is not required, except when the cover-crop is turned under.

FERTILIZERS

The fertilizer already recommended for use at time of planting will be found about right for young trees and, under most conditions, its use may be continued until the trees are well grown and commence to bear. On shade trees and shrubs its use may be continued throughout. When fruit trees begin to bear, the composition of the fertilizer applied should be changed. The amount of potash should be increased. In general, it will be found that a fertilizer containing 3 per cent ammonia, 6 per cent phosphoric acid, and an increased amount of potash will be about right. The composition of the fertilizer should be varied to meet special conditions.

The general tendency in the use of commercial fertilizers is to make frequent applications of small amounts. In arriving at the quantities required on shade trees, it is a good plan to use from one to two pounds for each inch in diameter. Young fruit trees may be given two or three pounds for each year of age, and fruiting trees have to be fertilized according to their condition and the crop indications.

If a young orange tree received one-half pound



Disc harrow at work in an Orange grove

The cultivation of older trees differs in some particulars from that given young trees. In the first place cultivation should begin in spring some time before the trees start into growth and should be continued at intervals of ten days or two weeks throughout the spring months up until about June 15 or July 1. A cover-crop should then be given possession of the ground until autumn. The best cover-crops in the lower South are beggarweed, cowpeas and velvet beans. In spring, the whole surface of the ground should be cultivated, and if the weather is dry, cultivation should be given more frequently.

The most important objects of cultivation are to

Southern Planting Facts

*Glen Saint Mary
Nurseries*

Planting Information



Plan for cover-crop and cultivation of young orchard

at time of planting in January, it should receive a pound in March, another in June, and another in September. In its second year, it should be fertilized in February, April, June and September, giving about one pound and a half at each application. After the second year, there should be a gradual increase as the trees become older; those who secure best results fertilize liberally.

In fertilizing young trees, the fertilizer should be scattered in a band 2 feet wide, beginning back 6 inches from the trunk. As they become older, the fertilizer should be spread out toward the ends of the branches, and in old orchards or groves it should be broadcasted over the whole surface as the roots make their way into all parts of the soil. After applying fertilizer the ground should be cultivated.

INSECTS AND DISEASES

These must be watched for and guarded against. Dead branches should be removed from the tops of trees and burned. They often contain spores of diseases or have become the breeding-places of noxious insects. In some localities many insects may be controlled effectively through the agency of friendly fungi; in others it is necessary to spray as well. In a general way it will be found that Bordeaux mixture is effective against fungi, lime-sulphur wash as a winter spray against scale insects and fungi on deciduous trees, rust mite, purple mite and red spider on citrus; arsenate of lead against biting or chewing insects, and whale-oil soap or miscible oil against sucking insects such as white fly and against various scale insects.



Distributing fertilizer around the outside branches

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LARGE-SIZED TREES AND SHRUBS FOR IMMEDIATE RESULTS

In the foregoing pages of our Catalogue we have listed the regular sizes of trees and plants. Very frequently our customers are interested in large-sized specimens with which to secure quicker effects from their plantings. We are able to furnish these in a number of different sizes and varieties, and we are prepared to move them with large balls of earth about the roots. We shall be pleased to furnish descriptions and prices upon request, stating size and kind desired.

PROPER DISTANCES FOR PLANTING

Oranges on common stocks.....	25 to 30 ft. each way
Oranges on <i>C. trifoliata</i>	18 to 20 ft. each way
Kumquats.....	10 to 12 ft. each way
Peaches and Apples.....	18 to 20 ft. each way
Plums.....	15 to 18 ft. each way
Japan Persimmons.....	15 to 20 ft. each way
Pears, Le Conte.....	25 to 30 ft. each way
Pears, General varieties.....	20 to 25 ft. each way
Grapes, Bunch varieties.....	8 to 10 ft. each way
Grapes, Muscadine type.....	18 to 25 ft. each way
Figs.....	12 to 15 ft. each way
Pecans.....	50 to 60 ft. each way

NUMBER OF TREES OR PLANTS TO THE ACRE

Distance apart, feet	No. of trees	Distance apart, feet	No. of trees	Distance apart, feet	No. of trees
8 by 8.....	680	15 by 15.....	193	25 by 25.....	69
9 by 9.....	537	16 by 16.....	170	30 by 30.....	48
10 by 10.....	435	17 by 17.....	150	35 by 35.....	35
11 by 11.....	360	18 by 18.....	134	40 by 40.....	27
12 by 12.....	302	19 by 19.....	120	45 by 45.....	21
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Glen Saint Mary Nurseries Co.

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FLORIDA

